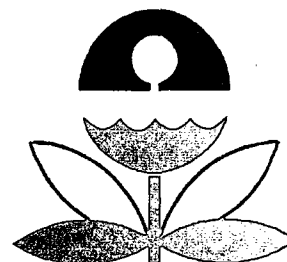
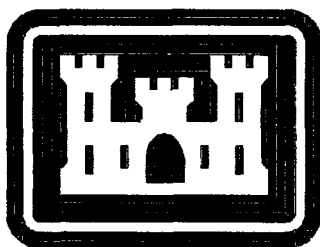




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U.S. Army Corps of Engineers  
Rapid Response Program Office

Environmental Protection Agency  
Region VIII

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**Final Scope of Work  
Removal Action, Vasquez Boulevard I-70, Superfund  
Site  
EPA Region VIII, Denver, CO**

**June 20, 2003**

**Project Resources Inc.  
DACA45-01-D-0001, TO #14**

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**Final Scope Of Work**  
**Removal Action, Vasquez Boulevard Interstate 70, Superfund Site**  
**EPA Region VIII, Denver, CO**  
**June 20, 2003**

**1. Introduction.** EPA Region VIII, Denver has requested a Rapid Response Removal action be completed for Vasquez Boulevard Interstate 70. The request is to complete a Removal Action on 141 residential properties that have been sampled and determined to have the highest lead and arsenic in their yards. All 141 removals should be completed by November 26<sup>th</sup> 2003, however follow-up work such as sod and landscaping may continue after this date.

**1.1 Background.** The site came to the attention of the USEPA following studies directed by the Colorado Department of Public Health and Environment (CDPHE) at the nearby Globe Smelter. These studies identified elevated concentrations of arsenic and/or lead in residential yards within Globeville, and extended into the Elyria and Swansia neighborhoods. Properties at the site are single family and multi-family homes. EPA Region VIII would like to conduct a removal action on 141 properties that have been found to have the highest lead and arsenic in their yards. The levels of lead and arsenic, over 540 mg/kg and 240 mg/kg respectively, represent a danger to human health.

**1.1. Site Description.** The VB-I-70 Removal Action on the 138 properties that are located in the study area. The study site covers an area of approximately four square miles in north central Denver, Colorado, Denver County. Properties are located in the neighborhoods of Swansea, Elyria, Clayton, Cole and a portion of Globeville. The sites are only 4 miles from downtown Denver. A site map of and an address listing for residences requiring removal actions are provided in Appendix A. approximately 4 of the properties are in the historic preservation area of Denver, all removals shall be coordinated with the local Denver historic preservation office.

**1.2. Project Request.** The U.S. EPA, Region VIII, Superfund Program, has requested that the USACE, Omaha District, Rapid Response Program, execute a removal action for the listed properties within the study area. The Omaha District accepted this project and issued a Task Order #14 to Project Resources Incorporated (PRI). This Scope of Work (SOW) specifies the plans, fieldwork and necessary documentation required to complete this project as a site-specific contract with the USACE Rapid Response Program. A construction act, cost plus, fixed fee contract, with this SOW as an attachment, will be issued to PRI. All work shall be consistent with the attached requirements, unless otherwise approved. The Rapid contractor is tasked with providing the labor, materials, equipment, miscellaneous, and analytical services necessary to satisfactorily complete this scope of work.

**1.3. Project Goal.** Contractor-government teamwork and partnering are developed and maintained such that the project yields timeliness, economy, and quality and US EPA VIII expectations are maintained throughout the duration of the project.

**1.4. Daily Cost Tracking.** The Contractor shall provide daily cost tracking. The Contractor shall provide weekly summary reports and budget variance reports (both to include

home office charges) for the same duration. The Contractor shall notify the USACE when 75% of project costs have been expended. The Contractor shall project home office costs per week and reconcile those estimates to actual expenditures the following week

**2. Tasks.** Major tasks for the removal action include: geo-chemical soil tests, construction plan development, site coordination activities, site preparation, homeowner coordination, sampling gardens, exhuming, soil removal and loading, soil transporting and staging of lead/arsenic contaminated soils, site restoration activities, sampling and analysis activities, and performing health and safety practices. The Contractor shall develop the plans, cost proposal and perform the work based on the following tasks:

**2.1. Task 1 – Geotechnical Soil Tests and Site Visit.** The Contractor shall perform and analyze soil laboratory tests, performed in accordance with the EPA Work Plan. The contractor shall determine a similar soils specification based on that analytical. Justify choice of specification and soil range. This task allows site visit before mobilization to collect geochemical soil samples and visit work areas. This task included review of draft “Preliminary Remedial Design Work Plan for Soil Sampling and Remediation Program, Operable Unit 1, Vasquez Boulevard/Interstate 70, Superfund Site, Denver CO.

**2.2 Task 2 – Construction Work Plan.** The Contractor follow the March 2003 “Non Time Critical Removal Action Work Plan, Operable Unit 1, Vasquez Boulevard/Interstate 70, Superfund Site”. The contractor shall develop a construction work plan, which describes the tasks, interrelationship between tasks, and milestones such that layman understanding for normal removal operations is achieved. The Contractor shall take a template approach to the plan rather than attempting to describe removal for each affected property. The Contractor shall address health and safety considerations, propose equipment, labor, vendors, materials, and subcontractors, and describe sampling and analysis activities within the plan such that the following activities are sufficiently described:

- Soil geotechnical testing of existing yards and testing of soil sources available and a comparison of the soils.
- Site coordination removal (exhumation, loading, transporting, and staging of wastes, backfilling, final grading)
- Sampling and analysis (waste characterization, garden/flowerbed testing, borrow soil clean certification)
- Air Monitoring per “Non Time Critical Removal Action Work Plan, Operable Unit 1, Vasquez Boulevard/Interstate 70, Superfund Site”
- Site Restoration (sod, watering, landscaping)
- Transportation and disposal of waste
- Reporting

The contractor shall have the organization in place to manage personnel, materials, and equipment such that daily field changes are accommodated without unsatisfactory delays.

The contractor shall provide field construction supervisors who have verifiable experience working on residential HTRW removal actions and the communication skills to successfully

maintain project focus given diverse and challenging circumstances. The contractor shall provide equipment operators, general laborers, health and safety personnel (who have already successfully implemented most recent version of the USACE EM 385-1-1 requirements in addition to other safety requirements) to execute various work phases. The contractor shall provide technical support personnel such as regulatory specialists, chemist, industrial hygienist, and T&D coordinators to support the project needs at various times. The contractor shall provide experienced personnel in the following areas: government contract administration, procurement, property, project accounting, and HTRW planning.

**2.1.1. Right of Access.** The contractor shall utilize the Right of Access agreements, including all information in "Non Time Critical Removal Action Work Plan, Operable Unit 1, Vasquez Boulevard/Interstate 70, Superfund Site". Right of access shall be signed before sampling garden and performing any removal work on affected establishments. In the event signed access agreements are not available, the Contractor shall use U.S. EPA generated forms and obtain signed agreements prior to commencement of intrusive work.

**2.1.2. Subcontract Review.** USACE shall review and approve all subcontractor language before it is submitted to the subcontractors. Any change orders to the subcontract shall likewise be reviewed and approved by USACE prior to its issuance to the subcontractor. Further, subcontractors shall provide unit prices for their work. At a minimum, unit prices for truck rental, sample analyses, disposal, sod and watering, backfill material, etc shall be provided. The subcontractor's foreman shall participate in daily meetings concerning job progress.

**2.1.3. Permits, Clearances, and Licenses.** The Contractor shall be responsible for obtaining all permits, clearances, and licenses needed for the project. The Contractor shall obtain, at a minimum, signed utility clearances prior to any intrusive work, commercial drivers licenses for truck drivers, and develop, if compliant, a generic manifests per transport vehicle, not per load, to transport waste from the affected establishments to the staging area. The Contractor shall be in receipt of signed right of access agreements or shall obtain them prior to any intrusive work.

**2.1.4. Site Safety and Health Plan (SSHP).** The Contractor shall follow the instructions given in the Health and Safety Scope of Work Section Appendix B of the SOW to develop a Health and Safety Plan. This SSHP shall describe the health and safety procedures, practices, and equipment to be implemented and utilized in order to protect workers and the public from potential hazards associated with work activities.

Health and Safety standards to maintain include:

- Occupational Safety and Health Administration (OSHA) Construction Industry Standard; 29 CFR 1926, and General Industry Standards, 29 CFR 1910; 29 CFR 1926.65 - "Hazardous Waste Operations and Emergency Response", and 29 CFR 1910.1000 – "Air contaminants".
- US Army Corps of Engineers (USACE) Safety and Health Requirements Manual, latest version of EM 385-11.
- NIOSH/OSHA/USCG/EPA, "Occupational Safety and Health Guidance Manual for Hazardous Waste Site Activities

General health and safety practices include the following:

- Baseline lead level testing for field workers
- Lead level testing during removal activities for field workers and post hoc.
- Air monitoring, will be by others.
- Gross decon of transportation vehicle per loading.
- Gross decon of equipment per site.
- Development of a decontamination area for equipment, transportation vehicles(s).

**2.1.5. Chemical Sampling and Analysis Plan (CSAP).** Properties requiring removals will be sampled by EPA's contractor and post removal samples, if any, will also be by EPA's contractor. The Contractor shall follow Chemistry Instructions Appendix C, and "Non Time Critical Removal Action Work Plan, Operable Unit 1, Vasquez Boulevard/Interstate 70, Superfund Site" for sampling and analysis activities. Major tasks include garden sampling, waste characterization, and clean certification for fill material. The Contractor shall develop a waste characterization sampling plan such that long-term defensibility for disposed of wastes at the landfill(s) is maintained.

**2.1.6. Site Specific Advanced Agreements.** The Contractor will provide advanced agreements delineating the assumptions on which the project proposal was based. The advanced agreements are incorporated into the contract.

**2.2. Task 3 – Mobilization/Crew Rotation.** The Contractor shall mobilize to the project site necessary equipment, personnel, subcontractors, material, etc to successfully complete the requirements of this SOW. The Contractor shall perform a phased mobilization approach so as to maintain work efficiency and minimize downtime and costs. After contract award, the Contractor shall mobilize the Site Coordination Team to schedule affected property owners for removal and the site superintendent and project accountant to begin site preparation. After applicable clearances and permits are obtained for at least 12 properties, the removal crew shall be mobilized. The Contractor shall engage the site restoration crew when their work can be maintained without delays. The Contractor shall describe anticipated mobilization sequences in the Project Schedule. This task will include labor and travel costs associated with crew rotation.

**2.3. Task 4 - Site Set-up/Maintenance.** The Contractor shall prepare the site for removal activities. The Contractor shall coordinate the logistics for a staging area, which may include leasing property. The contractor shall mobilize to the existing ER Globeville staging area, and begin paying utilities and rentals related to this Vasques Boulevard Interstate 70 Project. The Contractor shall procure up to 1,000 cubic yards of fill material and stage it at the site prior to any intrusive activities. The staging area shall provide trailer for field workers and site coordination team; and a trailer for USACE, the field manager, and the project accountant. Telephone, fax, and copying service shall be required for the USACE trailer. Maintenance is also tracked under this Task. The contractor will find and prepare a temporary staging area for soil removed from the study area, this will be used to stage soils transported from yards and for soil to be trucked to the offsite landfill.

**2.4. Task 5 - Site Coordination, Pre-Excavation (including garden/flower bed sampling).** This task will propose the costs and team for Site Coordination. This team will:

- Visit, in person, with property owners and possibly tenants of affected establishments to coordinate and schedule upcoming removal activities and manage expectations. Site Restoration forms shall be developed for this purpose and signed by the property owner during the visit.
- Obtain signed right of access agreements per establishment.
- Garden/flower bed sampling. Perform garden/flower bed sampling at properties where home owner's request; per the "Non Time Critical Removal Action Work Plan, Operable Unit 1, Vasquez Boulevard/Interstate 70, Superfund Site".
- Perform photo and video documentation prior to any intrusive activities. The Contractor may use digital cameras; but the site trailer, US EPA, and USACE shall have hard copies of the documentation.
- Develop photo albums which describe, per establishment, before removal. Names and addresses of affected establishments shall be incorporated into the album.
- Obtain signed utility clearances per affected establishment.
- Generate daily schedules for the removal crews such that the crews work load remains constant and downtime is minimized.
- Participate in daily coordination meetings at the end of the day.

The Site Coordination Team shall make initial contact with the property owners, communicate removal action operations, and address concerns. The property owner and government representative(s) shall perform a "walk through" of the affected areas. The government representative shall request the property owner remove interfering objects (swing sets, bird baths, etc) prior to the removal. If gardens, bushes, trees, etc. interfere with the removal, the government representative shall ask the owner if they wish removal of soil beneath such objects, as no replacement will be planned. The Site Restoration Agreement shall document all responses and shall be signed by the property owner prior to commencement of intrusive work.

These personnel shall possess highly effective communication skills to manage diverse expectations and concerns. These personnel are responsible for communicating U.S. EPA removal policies, but do not have the authority to make agreements beyond those policies (e.g. upgrade anyone's property). In the event of conflict or uncertainty, the Site Coordination Manager shall enlist the input of USACE. These personnel shall also have proficient computer skills to perform word processing tasks and develop spreadsheets.

**2.5. Task 6 – Removal and Loading of Impacted Soil.** The Contractor shall follow the most recent version of the "Non Time Critical Removal Action Work Plan, Operable Unit 1, Vasquez Boulevard/Interstate 70, Superfund Site". The Contractor shall perform the work in such a manner so as to minimize disturbance to the affected property. To the degree economical, all equipment shall be rubber tracked, tired so as to minimize damage. The Contractor shall identify utilities prior to intrusive work and make every effort to avoid impacting those utilities, including hand digging to expose utilities which are located in affected quadrants. The Contractor shall provide the operators, truck drivers, equipment and materials to remove contaminated soils to a depth of 12" bgs.

**2.7. Task 7 – Transportation, Disposal and Staging Waste Soils.** The Contractor shall plan the transportation work to the staging area such that the following concerns are addressed. The soil is a hazardous substance and may require shipping papers, marking, labeling, packaging and placarding per 49 CFR 170 et seqq. and 40 CFR part 262, subpart B as promulgated in the Federal Register Vol. 62 No. 29/ Wednesday, February 12, 1997. The project assumption is if the half of the removed soils will be transported to and disposed of at the ARCO facility and the other half will be transported to and have disposal at an approved landfill. The contractor will temporarily stage soil removed from the study area, before transporting soil to the landfill, when approved by USACE representative.

**2.8. Task 8 - Sampling and Analysis.** The Contractor shall perform sampling and analysis consistent with the Chemistry SOW and “Non Time Critical Removal Action Work Plan, Operable Unit 1, Vasquez Boulevard/Interstate 70, Superfund Site”. The Contractors CSAP shall address geo-technical soil testing; garden/flower bed sampling; waste characterization for disposal; clean certification for fill material. The Contractor shall compare geo-technical soil sampling results with the available borrow soil sources.

**2.9 Task 9 – Backfill, Landscaping and Restoration.** The Contractor shall restore all impacted properties to original conditions as is possible and follow the “Non Time Critical Removal Action Work Plan, Operable Unit 1, Vasquez Boulevard/Interstate 70, Superfund Site”. The final grading of the completed work shall be accomplished in such a manner as to restore disturbed areas, including lawns, landscaping ditches, and areas adjacent to roadways as above plan allows. Note the City of Denver has major restrictions on what is allowed on the “aprons” or the portions of the properties adjacent the street. The disturbed areas shall be graded and shaped to a condition suitable for sod, hydroseeding finish planting. The Contractor shall maintain the natural drainage patterns. Soil used for backfilling shall be capable of meeting 85% compaction without addition of water and with use of the proposed equipment. The Contractor shall place the backfill so as to maintain density requirements, desired run off contours, and as close to original conditions as possible. Pavements that are impacted shall be restored.

**2.10 Task 10 – Post Construction Maintenance.** The Contractor shall maintain sod and water sod for up to 30 days. The Contractor shall be responsible for sod replacement at no additional cost to the government when sod does not survive the 30-day timeframe. Repair items on punch lists. Include landscaping maintenance costs.

**2.11 Task 11 – Site Coordination, Follow-up, As Builts.** This task will propose the costs and team for Site Coordination. This team will:

- Perform photo and video documentation after intrusive activities, after contaminated soil is removed, and after the site is restored. The Contractor may use digital cameras; but the site trailer, EPA, and USACE shall have hard copies of the documentation.
- Develop photo albums which describe, per establishment, before removal, after exhumation, and after final site restoration. Names and addresses of affected establishments shall be incorporated into the album.
- Develop final CAD as-builts from property sketches for each site.
- Develop Residential Remediation Agreement (Final completion agreement) forms and obtaining signature(s) for each site after site restoration is complete.



- Generate daily schedules for the site restoration crews such that the crews work load remains constant and downtime is minimized.
- Participate in daily coordination meetings at the end of the day.
- Develop per affected establishment a file which contains: photo documentation (floppy is satisfactory for this purpose), right of access agreement, utility clearances, as-builts, site restoration agreements, remediation agreements, and any other pertinent information.

**2.12 Task 12 – Site Teardown and Demobilization.** Restore trailer site area, and any staging areas to former condition. Demobilize crew and equipment.

**2.13 Task 13 - Site Administration and In-directs.** The contractor shall list administrative type personnel at this site. The list should include title, number of hours, and wage rate. This activity should also include the equipment on site for the entire on site project duration. This includes labor for the on-site cost accountant and the site supervisor; equipment staying through the on-site portion; and it includes trailers, furniture, office equipment, port-o-johns, trash removal services, etc.

**2.14 Task 14 – Lodging and Per Diem.** This cost proposal task includes the lodging and per diem associated with the work on-site.

**2.15 Task 15 – Home Office Support.** The contractor shall list personnel away from the project site who supported this particular project. The list should include title, number of hours, and wage rate of each person connected with this project. This includes labor for the project manager. Technical support and admin personnel.

**2.16 Task 16 - Final Report.** The Contractor shall submit a Final Report within three weeks of completion of the on-site work. Distribution list is given in Table 1.

**2.17 Task 17 - Project Close Out.** The Contractor shall closeout all purchase orders and subcontracts. The contractor will finalize the audit and submit a final zero balance bill for project closeout by DCAA accounting.

**2.13 Task 18 – Air Monitoring.** Air monitoring is detailed in the March 2003 “Non Time Critical Removal Action Work Plan, Operable Unit 1, Vasquez Boulevard/Interstate 70, Superfund Site”. Air monitoring shall be subcontracted to a specialist company in the field. The air monitoring subcontractor shall report all results directly to the USACE representative. The air monitoring subcontract shall be reviewed by USACE Industrial Hygenist before award of subcontract.

**3. Submittals.** Documents submitted in performance of this Delivery Order shall be prepared on commercial grade bond paper. Documents shall be mailed via a carrier service that will provide overnight service, such as Express Mail. The Contractor shall prepare and submit the following documents.

**3.1. Cost Proposal.** The Contractor shall provide a cost proposal that contains the labor, materials, equipment, analytical, subcontractor cost, and miscellaneous costs to complete this

scope of work. The contractor will submit cost proposal by February 28, 2003. The contractor shall not be reimbursed for expenditures incurred during the Cost Proposal or the Site Specific Advance Agreements' preparation and negotiation. The Task Order Cost Proposal shall be prepared based on this Scope of Work including references. This task order shall utilize construction wage rates. A copy of these wage rates is presented in Appendix D Wage Rates. The cost proposal shall provide a timed-phased breakdown for each "TASK" based on Direct Costs including labor, equipment, materials, subcontracts, and indirect costs including overhead and G&A expenses. The cost proposal shall be submitted in a format that matches previously discussed tasks. For subcontracts greater than \$25,000, the Contractor shall submit Subcontract consent packages for government approval. Rental equipment shall be rented by the month, though daily rental rates shall be provided in the daily cost tracking.

**3.1.1. Cost Proposal Alternates.** The cost proposal shall have alternates:

- **Alternate 1** uses the existing ER Globeville staging area may be used, by taking over trailers, utilities and rentals.
- **Alternate 2** the contractor provides a staging area located close to the Study Area
- **Alternate 3** is transportation and disposal to ARCO facility.
- **Alternate 4** is transportation and disposal at an approved landfill

**3.1.2. Assumptions.** In generating the proposal, the contractor shall assume the following:

- Entire yard to 12 inches deep will be removed per property.
- 138 properties require removal.
- Calculate the cy for soil removal and backfill.
- 6-10 hrs days will be worked for the duration of the project

**3.1.3. Taxes.** The Contractor shall identify and exercise applicable tax exemptions and identify and pay applicable sales and use tax for this project.

**3.2. Construction Work Plans.** Submit the following documents within a week of the cost proposal. All work plans shall be submitted as one document. Work plans shall be distributed according to Table 1. Submittals.

**3.2.1. Construction Work Plans**

**3.2.2. Chemistry SAP**

**3.2.3. Site Safety and Health Plan (SSHP).**

**3.3. Final Construction Work Plans.** Upon conclusion of negotiations, the Contractor shall submit the Final Construction Work Plans, which shall incorporate review comments, and corrections from the negotiation within 5 days upon conclusion of negotiations, or as otherwise determined during negotiations. Procedures for revisions are discussed in Paragraph 4 Revisions and Addenda.

**3.4. Daily Submittals.** Daily submittals shall be submitted to the USACE on-site representative at the close of business, daily. All daily submittals shall be available for electronic transmittal to the Omaha District Offices at the close of business, daily. Daily submittals include:

**3.4.1. Rapid Response Quality Control Daily Report.** This form is provided in

## **Appendix D - Project Forms.**

**3.4.2. Rapid Response Daily Work Order.** This form is provided in Appendix E Project Forms.

**3.5. Weekly Status Report.** The Contractor shall submit a weekly progress no later than 7:00 A.M. Central Standard Time the following Tuesday after the week which is being reported. The reports will be e-mailed or telefaxed to the Project Manager. The Weekly Status Report shall be transmitted weekly from the receipt of "seed" money until final on-site demobilization. The reports shall include projected home of lice charges for the upcoming week in addition to actual costs for home office charges for the previous week for the duration already stated. At that time the report shall be transmitted bi-weekly until final payment is made. The Weekly Status will include the following information:

**3.5.1.** Project name.

**3.5.2.** Date of report.

**3.5.3.** Name, title, telephone number, telefax number, address, and company name of the person completing the report.

**3.5.4.** Summary of work performed for the project during the report period, both on site and offsite.

**3.5.5.** Explanation of any deviations from the scope of work and/or the Work plan (including modifications and schedule slippages).

**3.5.6.** Discussion of all problems encountered.

**3.5.7.** Recommendations.

**3.5.8.** Key personnel changes.

**3.5.9.** Work anticipated to be performed the following week.

**3.5.10.** Percent of fieldwork complete.

**3.5.11.** Percent of project complete.

**3.5.12.** Conversation records with regulatory agencies.

**3.5.13.** Tabulated waste handling information including samples taken, results, transportation plans, disposal facility, etc. if applicable.

**3.5.14.** Submittal of Hazardous Waste Manifests, Waste Profile Sheets, and Land Disposal Restriction forms that were signed and submitted to the laboratories, disposal facilities or transporters during the week.

**3.5.15.** Weekly cost summary, which includes a breakdown of daily and weekly expenditures, as well as a total of expenditures to date.

**3.6. Final Report.** Draft and Final copies of the Project Report shall be submitted. While all submittals should be error-free, an extra effort shall be made to provide an error-free Final Project Report. The Draft Project Report shall be submitted within a 3 weeks of site demobilization. The Project Report shall include (if applicable) but not limited to:

**3.6.1. Summary of Work Performed.** Summary of work performed including, but not limited to:

**3.6.1.1. Executive summary.** The Executive Summary shall include the project objectives and narratives discussing how those objectives were met. If objectives were not met,

then a discussion reconciling the deviations shall be provided.

3.6.1.2. Narrative of the Scope of Work (including project objectives, mobilization and demobilization, site setup, site operations);

3.6.1.3. Safety;

3.6.1.4. Quality control;

3.6.1.5. Recommendation, lessons learned;

3.6.1.6. Conclusions;

3.6.1.7. Any other unique or special tasks performed or situations documented.

**3.6.2. Supporting Data.** The tabulation of criteria, data, circulations, etc., which are performed but not included in detail in the report shall be assembled as appendices. Criteria information provided by the Omaha District need not be reiterated, although it should be referenced as appropriate. The Appendices shall include but not be limited to:

3.6.2.1. The final Scope of Work.

3.6.2.2. Completed permits and verbal conversation records concerning any permitting.

3.6.2.3. Licenses.

3.6.2.4. Hazardous Waste Manifests, Waste Profile Sheet, shipping documents, Land Disposal Restriction Certification and Notification, Federal and State Annual and Biennial reports, TSCA Annual Reports, Certifications of Disposal for PCBs and Exception Reports.

3.6.2.5. Rapid Response Daily Work Order.

3.6.2.6. Rapid Response Quality Control Daily Report.

3.6.2.7. Sampling and Analysis Documentation and Results.

3.6.2.8. Chain-of-Custody Records.

3.6.2.9. Photo Documentation.

3.6.2.10. List of visitors.

3.6.2.11. Project Points of Contact address and phone (including Site Manager, T&D Contractors, Subcontractor names, USACE-PM, Ft Crook personnel, etc.).

3.6.2.12. Survey reports and backup notes.

3.6.2.13. Completed Verbal Conversation Records especially ones that either impact the Scope of Work, Cost Proposal, or Final Report.

3.6.2.14. Finalized versions of the transportation and disposal and the analytical results summary tables.

3.6.2.15. Weekly reports.

**3.7. Partial Submittals.** Partial submittals will not be accepted unless prior approval is given.

**3.8. Covers Letters.** A cover letter should accompany each document and indicate the project, project phase, the date comments are due, to whom comments are to be submitted, the date and location of the review conference, etc., as appropriate. (Note that, depending on the recipient, not all letters will contain the same information.) The contents of the cover letters should be coordinated with the USACE-PM prior to the submittal date. The cover letter shall not be bound into the document.

**3.9. Covers.** The report covers shall be durable binders, which hold pages firmly while allowing easy removal, addition, or deletion of pages. A report title page shall identify the report title, the Corps of Engineers and the date.

**4. Revisions and Addenda.** Review comments issued prior to Government approval shall be incorporated by revising and reissuing affected pages. If major revisions are necessary, the entire Plan shall be resubmitted. Minor changes affecting only a few pages may be made by addenda sheets. The affected pages shall have the revision number and date of correction on the bottom right corner of the page.

Any changes to the project work plan shall be accompanied by a cover sheet with a list of pages that have been revised. The revised pages that the Contractor issues shall cover any additions or changes to the plans or reports. The addendum for the project plan shall be issued prior to the commencement of work for that phase.

**5. Project Management.** The Contractor shall assign an employee who will serve as the Project Manager (PM). This individual will oversee the coordination of the entire project, and coordinate with the USACE-PM. The PM will be named by the Contractor and approved by USACE.

**6. Security.** The Contractor shall maintain and secure the site during all site operations.

**7. Review of Progress and Technical Adequacy.** At any appropriate time, representatives of the Contracting Officer (CO) may review the progress and technical adequacy of the Contractor's work. Such review shall not relieve the Contractor from performing all contract requirements, except as may be waived by written instructions. The Contractor, under this contract, will interpose neither objection nor restriction to the Contracting Officer's designation of a Contractor for the purpose of reviewing the adequacy and corrections of the work performed under this contract.

**8. Conference Notes, Annotated Comments, and Confirmation Notices.**

**8.1. Conference Notes.** The Contractor shall be responsible for taking notes and preparing the reports of all conferences, if required. Conference notes shall be prepared in typed form and the original furnished this office (within seven (7) work days after date of conference) for concurrence and distribution to all attendees. This report shall include the following items as a minimum.

**8.1.1.** The date and place the conference was held with a list of attendees. The roster of attendees shall include name, organization, and telephone number.

**8.1.2.** Comments made during the conference, decisions affecting criteria changes, must be recorded in the basic conference notes. The conference notes should document any augmentation of written comments.

**8.2. Annotated Comments.** Written comments presented by the reviewers of the project

work plans, project reports, conferences, etc. shall be attached to each final submittal with the action noted. Annotated comment action shall be "A" for an Approved comment, "D" for a Disapproved comment, "W" for a comment that has been Withdrawn, and "E" for a comment that has an Exception noted. In addition, brief written responses to comments shall be added where appropriate.

**8.3. Confirmation Notices.** The Contractor shall be required to provide a weekly record of all discussions, verbal directions, telephone conversations, etc., participated in by the Contractor and/or his representatives on matters relative to this contract and the work. These records, entitled "Confirmation Notices" shall be numbered sequentially and shall fully identify participating personnel, subject discussed, and any conclusions reached. The Contractor shall forward to the USACE-PM a reproducible copy of said confirmation notices.

**9. Applicable Publications.** Work performed shall be consistent with this SOW and with the following guidelines and references and in compliance with all applicable regulations and standards including, but not limited to, those listed below. In the case that these requirements are conflicting, the one that offers the greatest protection shall be followed.

**9.1.** Most recent version of the U.S. Army Corps of Engineers Safety and Health Requirements Manual, EM 385-1-1, issued October 1992.

**9.2.** Design Specifications and Drawings.

**10. Attached Requirements.** All field, laboratory, and reporting requirements associated with this delivery order shall be completed in accordance with the appendices listed below. If conflicts in specifications or methodology exist between the attached requirements, the Contractor shall immediately notify the USACE-PM for clarification. Conflicts between this SOW and those desired by the Contractor shall be brought to the attention of the USACE-PM for clarification and approval.

**10.1. Health and Safety Instructions.** Refer to Appendix B - Health and Safety Instructions for the health and safety requirements applicable to this project.

**10.2. Chemistry Instructions.** Refer to Appendix C – Chemistry Instructions, for information necessary in CSAP.

**TABLE 1 - SUBMITTAL REGISTER****DACA45-01-D-0001, TO #14****Removal Action, Vasquez Boulevard I-70**

Name of Document with No. of Copies Required (All Documents Overnight Express Except as Noted)

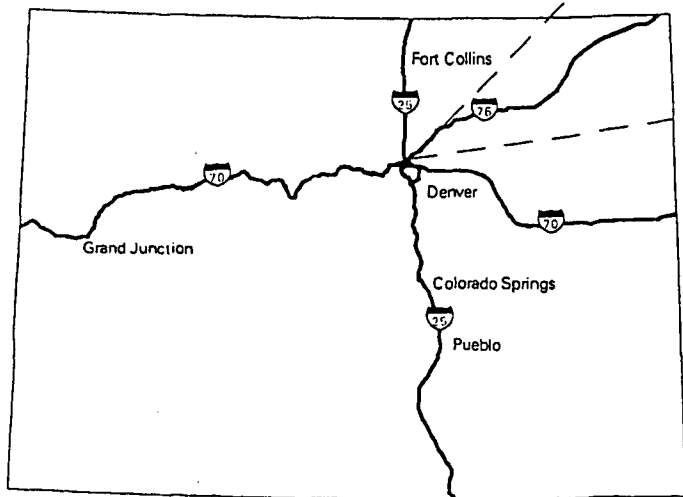
NAME/ADDRESS	DRAFT Construction WORK PLANS	FINAL Construction WORK PLANS	DRAFT & FINAL COST PROPOSAL	WEEKLY STATUS REPORT**	FINAL REPORT
U.S. Army Corps of Engineers Attn: Mary Darling, PM, Rapid Response Building 525, Room 324 (3 <sup>rd</sup> Floor) Offutt AFB, NE 68113 402-293-2513	1	2	0	1	1
U.S. Army Corps of Engineers ATTN: CENWO-CT-H (Ginger Gruber) 106 S. 15 <sup>th</sup> St Omaha, NE 68102-1618 (402) 221-4168	0	0	4*	0	0
Victor Ketellapper, P.E. RPM Environmental Protection Agency Region VIII 999 18th Street, Suite 300 Denver, CO 80202-2466 (303) 312-6578	1	1	0	1	1
Colorado Department of Public Health and Environment CDPHE Attn: Barbara O'Grady, RPM To be furnished 303-692-3395	1	1	0	1	1

\*Each copy shall include quotes and list of all facilities contacted

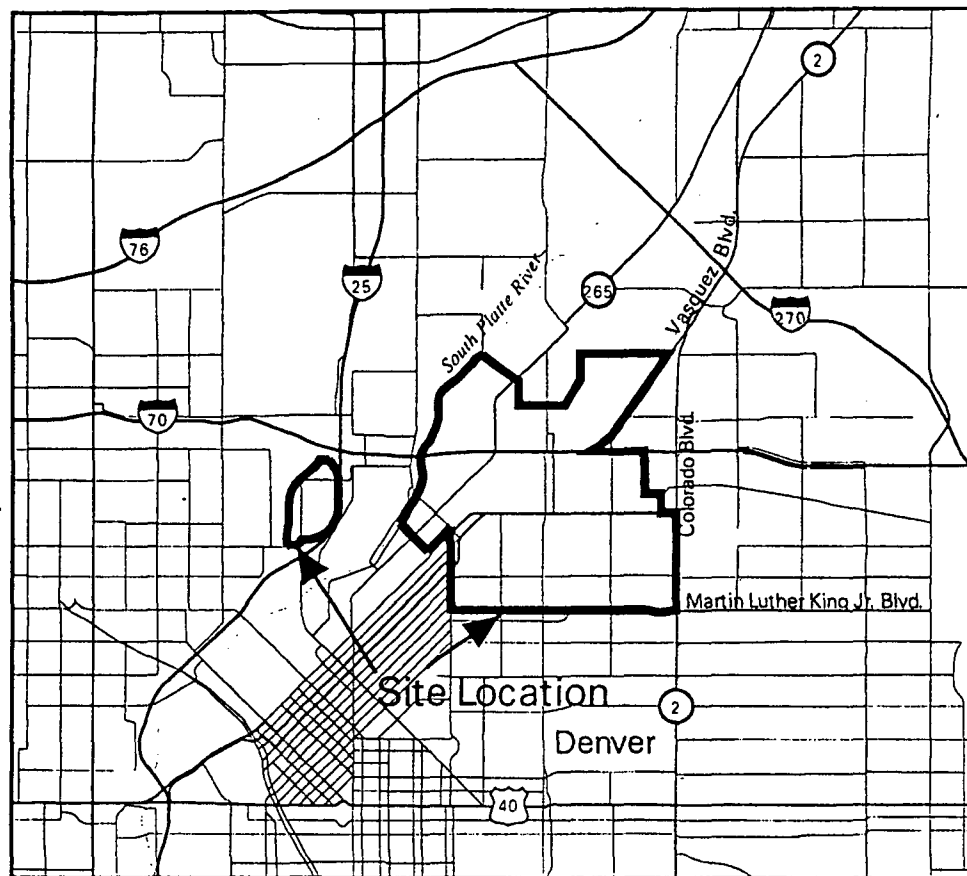
\*\*Regular Mail or e-mail

**Appendix A**  
**Property Addresses and Site Map**





COLORADO



VB/I70 OU1 VICINITY



U.S. EPA REGION 8  
VASQUEZ BOULEVARD/  
INTERSTATE 70 SITE OPERABLE UNIT 1

Figure 1-1

Site Location Map

PROJECT: 01-0107x-1	DATE: JULY 31, 2002
REV: 0	BY: ALB CHECKED:

## **Appendix A**

### **List of Candidate Properties for Removal Action**

This appendix provides the list of candidate properties for cleanup during the removal action. The list was generated by comparing the arsenic and lead exposure point concentrations (EPCs) measured in yard soils to the removal action levels and identifying properties for which the EPCs exceeded the action levels. In addition, 5 properties which had previously been targeted for removal action, but access was refused were also included. These properties are 3351 Gaylord Street, 3423 Milwaukee Street, 3557 Gaylord Street, 4842 Steele Street, and 4718 Race Street.

A list of the properties that are candidates for removal action is shown in Table A-1. Property owner contact information is shown in Table A-2.

Table 1

## List of Candidate Properties for Removal Action

Property ID	Neighborhood	Property Address	Arsenic Exposure Point Concentration (mg/Kg)	Lead Exposure Point Concentration (mg/Kg)
1046	CLAYTON	3245 JOSEPHINE ST	264.6	272.6
1067	CLAYTON	3321 ELIZABETH ST	64.5	660.2
1450	CLAYTON	3337 STEELE ST	241.4	410.3
1070	CLAYTON	3339 ELIZABETH ST	157.7	1130.5
1071	CLAYTON	3343 ELIZABETH ST	49.7	769.1
1059	CLAYTON	3350 COLUMBINE ST	306.8	357.4
1571	CLAYTON	3401 BRUCE RANDOLPH AVE	370.6	320.5
1123	CLAYTON	3408 MILWAUKEE ST	343.0	714.9
1172	CLAYTON	3423 MILWAUKEE ST	410.5	264.7
1115	CLAYTON	3423 SAINT PAUL ST	315.6	227.5
1192	CLAYTON	3432 JOSEPHINE ST	313.0	456.0
1551	CLAYTON	3440 JACKSON ST	341.5	109.3
1527	CLAYTON	3441 GARFIELD ST	256.7	206.5
1118	CLAYTON	3441 SAINT PAUL ST	258.5	393.8
1119	CLAYTON	3447 SAINT PAUL ST	357.4	315.4
1609	CLAYTON	3450 SAINT PAUL ST	263.7	572.6
1188	CLAYTON	3452 JOSEPHINE ST	240.0	505.9
1697	CLAYTON	3515 HARRISON ST	266.3	146.1
1236	CLAYTON	3521 JOSEPHINE ST	249.8	343.5
1266	CLAYTON	3528 ELIZABETH ST	302.6	286.2
1272	CLAYTON	3535 CLAYTON ST	302.6	188.4
1265	CLAYTON	3536 ELIZABETH ST	327.0	271.5
1243	CLAYTON	3541 MILWAUKEE ST	318.6	690.1
1244	CLAYTON	3551 MILWAUKEE ST	383.0	903.7
1262	CLAYTON	3552 ELIZABETH ST	287.7	253.2
1260	CLAYTON	3560 ELIZABETH ST	243.4	286.4
1802	CLAYTON	3620 SAINT PAUL ST	258.5	468.2
1524	CLAYTON	3631 BRUCE RANDOLPH AVE	317.2	205.4
1775	CLAYTON	3637 MONROE ST	314.1	231.3
1745	CLAYTON	3655 HARRISON ST	326.9	163.9
1837	CLAYTON	3701 COOK ST	241.4	164.5
1831	CLAYTON	3705 MADISON ST	262.8	145.1
2823	CLAYTON	3710 MADISON ST	249.4	135.0
1336	CLAYTON	3724 YORK ST	260.2	417.9
2776	CLAYTON	3730 YORK ST	99.4	637.0
3882	CLAYTON	3906 JACKSON ST	290.5	226.2
1937	CLAYTON	3927 ADAMS ST	291.2	182.7
377	COLE	1815 E 36TH AVE	13.1	591.7
580	COLE	3209 GAYLORD ST	232.5	669.5
98	COLE	3209 HIGH ST	91.8	588.5
583	COLE	3227 GAYLORD ST	241.0	256.3
592	COLE	3230 GAYLORD ST	363.7	408.7
220	COLE	3326 WILLIAMS ST	17.9	657.0
163	COLE	3329 HIGH ST	284.6	598.6
171	COLE	3346 GILPIN ST	150.5	563.7
187	COLE	3350 GILPIN ST	293.2	510.7
655	COLE	3351 GAYLORD ST	470.0	476.7
192	COLE	3415 WILLIAMS ST	17.8	594.0
731	COLE	3421 VINE ST	296.8	249.9
234	COLE	3433 GILPIN ST	14.8	556.4
281	COLE	3453 FRANKLIN ST	24.1	583.4

Table 1 (Continued)

## List of Candidate Properties for Removal Action

Property ID	Neighborhood	Property Address	Arsenic Exposure Point Concentration (mg/Kg)	Lead Exposure Point Concentration (mg/Kg)
322	COLE	3511 HUMBOLDT ST	163.9	574.6
2660	COLE	3515 LAFAYETTE ST	154.4	598.4
340	COLE	3519 LAFAYETTE ST	18.8	590.6
2659	COLE	3522 MARION ST	33.8	635.9
341	COLE	3523 LAFAYETTE ST	25.2	569.1
2666	COLE	3529 FRANKLIN ST	17.8	711.3
2661	COLE	3531 LAFAYETTE ST	149.2	623.6
345	COLE	3541 WILLIAMS ST	16.3	796.8
802	COLE	3542 VINE ST	273.5	264.1
343	COLE	3549 LAFAYETTE ST	14.1	602.8
826	COLE	3549 RACE ST	390.7	268.6
811	COLE	3557 GAYLORD ST	488.4	369.2
837	COLE	3601 YORK ST	340.0	257.0
429	COLE	3609 HIGH ST	26.6	559.1
418	COLE	3616 WILLIAMS ST	15.2	610.1
479	COLE	3622 LAFAYETTE ST	390.7	371.9
438	COLE	3640 HUMBOLDT ST	212.4	641.0
60	COLE	3659 MARION ST	25.5	613.8
2608	COLE	3720 VINE ST	243.1	289.2
895	COLE	3722 RACE ST	172.2	1004.4
494	COLE	3743 FRANKLIN ST	5.5	844.8
509	COLE	3744 MARION ST	19.0	574.5
507	COLE	3754 MARION ST	25.9	610.6
3391	COLE	3760 FRANKLIN ST	40.3	953.7
2256	COLE	3765 GILPIN ST	111.8	573.1
2258	COLE	3781 GILPIN ST	133.5	578.3
2275	COLE	3784 GILPIN ST	26.7	728.3
3407	COLE	3786 GILPIN ST	47.7	1129.3
3429	COLE	3830 FRANKLIN ST	178.9	697.7
3428	COLE	3834 FRANKLIN ST	25.1	605.3
3415	COLE	3838 GILPIN ST	36.2	625.7
3414	COLE	3842 GILPIN ST	39.1	624.5
3447	COLE	3911 HUMBOLDT ST	39.9	725.9
3426	COLE	3942 WILLIAMS ST	34.5	587.1
2321	ELYRIA	4351 RACE ST	206.5	643.9
2341	ELYRIA	4620 RACE ST	16.9	598.6
2334	ELYRIA	4654 HIGH ST	27.5	585.6
2346	ELYRIA	4658 WILLIAMS ST	144.6	559.4
2370	ELYRIA	4712 BRIGHTON BLVD	5.5	580.1
2397	ELYRIA	4736 VINE ST	16.1	562.6
2379	ELYRIA	4781 RACE ST	11.9	618.3
12	FIVE POINTS	3521 DELGANY ST	30.8	835.1
19	FIVE POINTS	3646 DELGANY ST	21.4	725.2
2650	FIVE POINTS	3720 DELGANY ST	20.5	609.5
3	FIVE POINTS	3721 MARION ST	22.4	597.9
2648	FIVE POINTS	3742 DELGANY ST	335.3	516.6
22	FIVE POINTS	3746 BRIGHTON BLVD	75.6	565.5
2646	FIVE POINTS	3754 DELGANY ST	38.4	553.9
2407	GLOBEVILLE	4143 FOX ST	26.7	782.5
3616	GLOBEVILLE	4205 FOX ST	12.0	635.4
3621	GLOBEVILLE	4422 DELAWARE ST	258.7	517.6
2993	SWANSEA	4309 COLUMBINE ST	32.8	575.8
2056	SWANSEA	4314 JOSEPHINE ST	237.5	579.0

Table 1 (Continued)

## List of Candidate Properties for Removal Action

Property ID	Neighborhood	Property Address	Arsenic Exposure Point Concentration (mg/Kg)	Lead Exposure Point Concentration (mg/Kg)
3070	SWANSEA	4315 STEELE ST	314.7	296.5
3068	SWANSEA	4318 SAINT PAUL ST	287.0	151.6
3048	SWANSEA	4319 FILLMORE ST	311.7	269.2
2060	SWANSEA	4340 JOSEPHINE ST	269.1	775.7
3111	SWANSEA	4442 JOSEPHINE ST	65.0	601.2
3080	SWANSEA	4459 THOMPSON CT	274.4	249.2
3132	SWANSEA	4539 COLUMBINE ST	188.2	678.8
3484	SWANSEA	4616 RACE ST	12.3	627.6
3168	SWANSEA	4635 FILLMORE ST	300.6	363.8
3298	SWANSEA	4640 FILLMORE ST	344.5	267.1
3297	SWANSEA	4650 FILLMORE ST	379.7	239.3
3501	SWANSEA	4653 HIGH ST	326.0	480.9
3174	SWANSEA	4660 MILWAUKEE ST	304.5	311.6
2157	SWANSEA	4680 CLAYTON ST	102.5	557.7
2191	SWANSEA	4701 FILLMORE	450.0	333.3
3344	SWANSEA	4705 CLAYTON ST	367.9	322.0
3554	SWANSEA	4710 RACE ST	12.6	583.1
	SWANSEA	4718 RACE ST	(1)	
3607	SWANSEA	4744 GAYLORD ST	277.9	296.7
3536	SWANSEA	4775 HIGH ST	254.5	411.1
3520	SWANSEA	4775 RACE ST	25.6	551.0
3275	SWANSEA	4780 COLUMBINE ST	156.2	572.8
3597	SWANSEA	4782 CLAUDE CT	30.9	544.6
3581	SWANSEA	4785 CLAUDE CT	248.0	416.4
3910	SWANSEA	4809 MILWAUKEE ST	382.0	210.1
3712	SWANSEA	4811 CLAYTON ST	314.2	216.3
2491	SWANSEA	4830 CLAYTON ST	337.5	342.2
	SWANSEA	4842 STEELE ST	(1)	
3702	SWANSEA	4850 CLAYTON ST	265.8	245.0
3865	SWANSEA	4909 MILWAUKEE ST	280.5	317.3
3872	SWANSEA	4920 MILWAUKEE ST	291.4	345.9
2478	SWANSEA	4932 STEELE ST	270.9	114.4
3676	SWANSEA	4935 ADAMS ST	299.6	158.7
2557	SWANSEA	4950 MILWAUKEE ST	270.0	364.7
3828	SWANSEA	4965 SAINT PAUL ST	378.1	313.6
3821	SWANSEA	4995 STEELE ST	273.0	264.5
3684	SWANSEA	5044 STEELE ST	157.7	605.7

Note: (1) Sampled prior to Phase III. Access for removal action refused in 1998.

Table 2

## Property Owner Details for Removal Action Candidate Properties

Property ID	Neighborhood	Property Address	Owner Name	Second Owner Name	Owner Mailing Address				Owner Phone Number	Arsenic Exposure Point Conc. (mg/Kg)	Lead Exposure Point Conc. (mg/Kg)
1046	CLAYTON	3245 JOSEPHINE ST	STACEY L & JOYCE E JONES		3245 JOSEPHINE ST	DENVER	CO	80205	303-291-0217	264.6	272.6
1067	CLAYTON	3321 ELIZABETH ST	WILLIAM H & ELIZABETH PHILLIPS		4988 WHEELING ST	DENVER	CO	80239	303-371-7426	64.5	660.2
1450	CLAYTON	3337 STEELE ST	TIMOTHY V SLAUGHTER		3337 STEELE ST	DENVER	CO	80205	303-355-9424	241.4	410.3
1070	CLAYTON	3339 ELIZABETH ST	DORIS M DUMAS		3339 ELIZABETH ST	DENVER	CO	80205	303-333-690	157.7	1130.5
1071	CLAYTON	3343 ELIZABETH ST	JOSEPH BAYKUN	ELYTE BAYKUN	3343 ELIZABETH ST	DENVER	CO	80205	303-377-5519	49.7	769.1
1059	CLAYTON	3350 COLUMBINE ST	VINCENTE & SOCORRO MUNOZ		3350 COLUMBINE ST	DENVER	CO	80205	303-780-0574	306.8	357.4
1571	CLAYTON	3401 BRUCE RANDOLPH AVE	WESLEY C WHITE	NATLINE SIDBERRY-WHITE	3401 BRUCE RANDOLPH AVE	DENVER	CO	80205	303-377-6279	370.6	320.5
1571	CLAYTON	3401 BRUCE RANDOLPH AVE	NATLINE SIDBERRY-WHITE		3401 E 34TH AVE	DENVER	CO	80205		370.6	320.5
1123	CLAYTON	3408 MILWAUKEE ST	GERALD MARTIN		P.O. BOX 745034	ARVADA	CO	80006	303-554-3581	343.0	714.9
1172	CLAYTON	3423 MILWAUKEE ST	IVAN J & FRANCHELL GASKIN		3423 MILWAUKEE ST	DENVER	CO	80205	303-322-1762	410.5	264.7
1115	CLAYTON	3423 SAINT PAUL ST	BESSIE M LONG		3423 SAINT PAUL ST	DENVER	CO	80205	303-322-1605	315.6	227.5
1192	CLAYTON	3432 JOSEPHINE ST	CHRISTA & ARNOLD KILK		3432 JOSEPHINE ST	DENVER	CO	80205	303-321-7852	313.0	456.0
1551	CLAYTON	3440 JACKSON ST	CAROLYN CLEAVER		3440 JACKSON ST	DENVER	CO	80205	303-399-4650	341.5	109.3
1527	CLAYTON	3441 GARFIELD ST	NAOJI & NORIKO TSUTSUI		3447 GARFIELD ST	DENVER	CO	80205	303-333-9518	256.7	206.5
1118	CLAYTON	3441 SAINT PAUL ST	ROSE ANN BAUGH		3441 SAINT PAUL ST	DENVER	CO	80205	303-377-0896	258.5	393.8
1119	CLAYTON	3447 SAINT PAUL ST	WILLIAM W JR & LOIS M TAYLOR		3447 SAINT PAUL ST	DENVER	CO	80205	303-333-6672	357.4	315.4
1609	CLAYTON	3450 SAINT PAUL ST	ODESSA T JACKSON LIFE ESTATE	THOMASINE J HALLMAN	2116 LAFAYETTE ST	DENVER	CO	80205	303-861-9152	263.7	572.6
1188	CLAYTON	3452 JOSEPHINE ST	EDNA HARRIS		3452 JOSEPHINE ST	DENVER	CO	80205	303-399-6293	240.0	505.9
1697	CLAYTON	3515 HARRISON ST	HILDA M GARRISON		3515 HARRISON ST	DENVER	CO	80205		266.3	146.1
1236	CLAYTON	3521 JOSEPHINE ST	JOSEPH M & GLADYS L BROUSSARD		3521 JOSEPHINE ST	DENVER	CO	80205	303-295-6357	249.8	343.5
1266	CLAYTON	3528 ELIZABETH ST	MANUEL & IRMA QUEZADA		3528 ELIZABETH ST	DENVER	CO	80205	303-394-9113	302.6	286.2
1272	CLAYTON	3535 CLAYTON ST	JUAN FRANCISCO GARCIA	TERESA MENDOZA	3535 CLAYTON ST	DENVER	CO	80205	303-289-2588	302.6	188.4
1265	CLAYTON	3536 ELIZABETH ST	FRED J & CLARA B KING		3536 ELIZABETH ST	DENVER	CO	80205	303-333-3927	327.0	271.5
1243	CLAYTON	3541 MILWAUKEE ST	JUAN LUJAN		3541 MILWAUKEE ST	DENVER	CO	80216	303-329-0613	318.6	690.1
1244	CLAYTON	3551 MILWAUKEE ST	MARTIN & MARIA E HERRERA		1728 E 36TH AVE	DENVER	CO	80205	303-388-6158	383.0	903.7
1262	CLAYTON	3552 ELIZABETH ST	JIMMIE L WILLSON		3552 ELIZABETH ST	DENVER	CO	80205	303-394-4106	287.7	253.2
1260	CLAYTON	3560 ELIZABETH ST	SONDRA K HARVEY		3560 ELIZABETH ST	DENVER	CO	80205	303-322-4327	243.4	286.4
1802	CLAYTON	3620 SAINT PAUL ST	MIGUEL A VILLARREAL	GUADALUPE QUEZADA	3620 SAINT PAUL ST	DENVER	CO	80205	303-331-6649	258.5	468.2
1524	CLAYTON	3631 BRUCE RANDOLPH AVE	KERRY A MOORE		3631 BRUCE RANDOLPH AVE	DENVER	CO	80205	303-329-8088	317.2	205.4
1775	CLAYTON	3637 MONROE ST	SERGIO IBARRA		3637 MONROE ST	DENVER	CO	80205	303-377-3683	314.1	231.3
1745	CLAYTON	3655 HARRISON ST	LEWIS JR & CLEMMIE DANIELS		3655 HARRISON ST	DENVER	CO	80205		326.9	163.9
1837	CLAYTON	3701 COOK ST	SAUL & MARIA ROSA VASQUEZ		3701 COOK ST	DENVER	CO	80205	303-394-0829	241.4	164.5
1831	CLAYTON	3705 MADISON ST	ELLEN ANTHONY		3705 MADISON ST	DENVER	CO	80205	303-377-2235	262.8	145.1
2823	CLAYTON	3710 MADISON ST	ROGER B MAUPIN		PO BOX 621061	LITTLETON	CO	80162	979-0243	249.4	135.0
1336	CLAYTON	3724 YORK ST	VICTORIA H ORTIZ		3724 YORK ST	DENVER	CO	80205	303-298-9640	260.2	417.9
2776	CLAYTON	3730 YORK ST	ART ARITA		1020 CUCHARA ST	DENVER	CO	80221	429-5382	99.4	637.0
3882	CLAYTON	3906 JACKSON ST	SHIRLEY JONES		3906 JACKSON ST	DENVER	CO	80205	303-355-6683	290.5	226.2
1937	CLAYTON	3927 ADAMS ST	MARIA F & RICARDO OLVERA		7156 BIRCH ST	COMMERCE CITY	CO	80022	303-289-8569	291.2	182.7
377	COLE	1815 E 36TH AVE	RICHARD CLAYTON CHANEY		3608 WILLIAMS ST	DENVER	CO	80205		13.1	591.7
580	COLE	3209 GAYLORD ST	LELA MAE BUGGS	DOROTHY R WINN	3209 GAYLORD ST	DENVER	CO	80205	303-337-7633	232.5	669.5
98	COLE	3209 HIGH ST	ALEJANDRO PEDROZA		3209 HIGH ST	DENVER	CO	80205	303-296-1056	91.8	588.5
583	COLE	3227 GAYLORD ST	TOM BUSHU		PO BOX 100066	DENVER	CO	80250		241.0	256.3
592	COLE	3230 GAYLORD ST	CHRIS MEZA		3230 GAYLORD ST	DENVER	CO	80205	303-321-7566	363.7	408.7
220	COLE	3326 WILLIAMS ST	ROBERT D & CONNIE V BLEA		3326 WILLIAMS ST	DENVER	CO	80205		17.9	657.0
163	COLE	3329 HIGH ST	TEXANNA C STRIGGLES		3329 HIGH ST	DENVER	CO	80205	303-295-6741	284.6	598.6
171	COLE	3346 GILPIN ST	JOE & LUCILLE HUNT		3346 GILPIN ST	DENVER	CO	80205	303-295-6777	150.5	563.7
187	COLE	3350 GILPIN ST	CADREC, ATTN: J T PETERSON		3350 GILPIN ST	DENVER	CO	80205	303-295-2521	293.2	510.7
655	COLE	3351 GAYLORD ST	STEVENSON T & MATTIE HOLMES		3351 GAYLORD ST	DENVER	CO	80205	303-295-6520	470.0	476.7
192	COLE	3415 WILLIAMS ST	MARIA CASILLAS		3415 WILLIAMS ST	DENVER	CO	80205	303-296-2167	17.8	594.0
731	COLE	3421 VINE ST	JERRY VALENTINE-HARLAN		3421 VINE ST	DENVER	CO	80205	303-296-6936	296.8	249.9
234	COLE	3433 GILPIN ST	ELEANOR RUTH SATCHELL		3433 GILPIN ST	DENVER	CO	80205	303-296-9151	14.8	556.4
281	COLE	3453 FRANKLIN ST	3453 FRANKLIN STREET LLC		2516 WASHINGTON ST	DENVER	CO	80205	303-831-7368	24.1	583.4
322	COLE	3511 HUMBOLDT ST	JOHN C & ANGELA T DERR		3511 HUMBOLDT ST	DENVER	CO	80205	303-295-7503	163.9	574.6
2660	COLE	3515 LAFAYETTE ST	FERNANDO L BARRON		3515 LAFAYETTE ST	DENVER	CO	80205	296-8112	154.4	598.4
340	COLE	3519 LAFAYETTE ST	FERMIN C & MARTINA HERRERA		1345 EXPLORADOR CALLE	THORNTON	CO	80229	303-289-7428	18.8	590.6
2659	COLE	3522 MARION ST	STELLA MAE HOUSTON		3522 MARION ST	DENVER	CO	80205	295-6068	33.8	635.9
341	COLE	3523 LAFAYETTE ST	RONNIE L MONTANO		3543 HUMBOLDT ST	DENVER	CO	80205	303-297-8633	25.2	569.1
2666	COLE	3529 FRANKLIN ST	ELLEN V & HALL		3529 FRANKLIN ST	DENVER	CO	80205	7790694	17.8	711.3
2661	COLE	3531 LAFAYETTE ST	LORENE R REPOSA		3002 ABILENE ST	AURORA	CO	80010	3668386	149.2	623.6
345	COLE	3541 WILLIAMS ST	EVERTT E & G JUNE NELSON		PO BOX 787	ARVADA	CO	80001	303-422-7577	16.3	796.8
802	COLE	3542 VINE ST	JEAN M TURNER		3542 VINE ST	DENVER	CO	80205	303-295-6625	273.5	264.1

Table 2 (Continued)

## Property Owner Details for Removal Action Candidate Properties

Property ID	Neighborhood	Property Address	Owner Name	Second Owner Name	Owner Mailing Address				Owner Phone Number	Arsenic Exposure Point Conc. (mg/Kg)	Lead Exposure Point Conc. (mg/Kg)
343	COLE	3549 LAFAYETTE ST	MICHAEL E PATTERSON		3549 LAFAYETTE ST	DENVER	CO	80205		14.1	602.8
343	COLE	3549 LAFAYETTE ST	K BRENT WHISTLER		3549 LAFAYETTE ST	DENVER	CO	80205	303-298-7205	14.1	602.8
826	COLE	3549 RACE ST	SARAH G HAMER		3549 RACE ST	DENVER	CO	80205	303-298-1449	390.7	268.6
811	COLE	3557 GAYLORD ST	DONNA JEAN TRUST FRANKLIN		3557 GAYLORD ST	DENVER	CO	80205	303-292-9580	488.4	369.2
837	COLE	3601 YORK ST	DOMINGO & ERNESTINE ROMERO		3601 YORK ST	DENVER	CO	80205	303-293-6776	340.0	257.0
429	COLE	3609 HIGH ST	LORENZO SOTO		3609 HIGH ST	DENVER	CO	80205	303-298-9404	26.6	559.1
418	COLE	3616 WILLIAMS ST	VICTOR FELIPE PENA		599 TROY ST	AURORA	CO	80011		15.2	610.1
479	COLE	3622 LAFAYETTE ST	SOPHIA A RODRIGUEZ		3622 LAFAYETTE ST	DENVER	CO	80205	303-292-5261	390.7	371.9
438	COLE	3640 HUMBOLDT ST	JESUS M MARTINEZ		3640 HUMBOLDT ST	DENVER	CO	80205		212.4	641.0
60	COLE	3659 MARION ST	HOOD REAL ESTATE LLC		PO BOX 9461	DENVER	CO	80209	303-688-1372	25.5	613.8
2608	COLE	3720 VINE ST	CRAWFORD MARGARET AN	LESSIE M GUSS	3720 VINE ST	DENVER	CO	80205	303-298-8571	243.1	289.2
895	COLE	3722 RACE ST	WINNIFRED BAXTER		3722 RACE ST	DENVER	CO	80205	303-297-8966	172.2	1004.4
494	COLE	3743 FRANKLIN ST	JOSE BANUELOS		3743 FRANKLIN ST	DENVER	CO	80205	303-295-1719	5.5	844.8
509	COLE	3744 MARION ST	FOUR EQUITIES GROUP INC	BAUDELIO CASILLAS	3744 MARION ST	DENVER	CO	80205	303-297-9019	19.0	574.5
507	COLE	3754 MARION ST	ELNORA ELIZABETH WILLIAMS		3754 MARION ST	DENVER	CO	80205	303-296-6316	25.9	610.6
3391	COLE	3760 FRANKLIN ST	MARIA GUADALUPE GONZALES		3760 FRANKLIN ST	DENVER	CO	80205	2987716	40.3	953.7
2256	COLE	3765 GILPIN ST	LORRIE KINGSBERRY		3765 GILPIN ST	DENVER	CO	80205		111.8	573.1
2258	COLE	3781 GILPIN ST	ANN-MARIE MORISSETTE		3781 GILPIN ST	DENVER	CO	80205	303-288-7727	133.5	578.3
2275	COLE	3784 GILPIN ST	LYNNE C CHARLES	STEPHEN METCALF	3748 FRANKLIN ST	DENVER	CO	80205	303-292-0176	26.7	728.3
3407	COLE	3786 GILPIN ST	DEBB MUMFORD		3786 GILPIN ST	DENVER	CO	80205	2981960	47.7	1129.3
3429	COLE	3830 FRANKLIN ST	LARRY & MARY ODELIA MARTINEZ		3830 FRANKLIN ST	DENVER	CO	80205	2953801	178.9	697.7
3428	COLE	3834 FRANKLIN ST	JOHN E MCNEIL		3834 FRANKLIN ST	DENVER	CO	80205	2966235	25.1	605.3
3415	COLE	3838 GILPIN ST	LINDA TOLMICH		3838 GILPIN ST	DENVER	CO	80205	2971914	36.2	625.7
3415	COLE	3838 GILPIN ST	ROSE VILLA		3838 GILPIN ST	DENVER	CO	80205		36.2	625.7
3414	COLE	3842 GILPIN ST	ROSEMARIE FONTAINE		10475 KALAMATH ST	NORTHGLENN	CO	80234	303-457-2762	39.1	624.5
3414	COLE	3842 GILPIN ST	JERRY & LAVINIA M DOTTAIO		10475 KALAMATH ST	NORTHGLENN	CO	80234	4572762	39.1	624.5
3447	COLE	3911 HUMBOLDT ST	MARIA DEL PILAR RUBIO		136 CHICHESTER	SAN ANTONIO	TX	78209	2968849	39.9	725.9
3426	COLE	3942 WILLIAMS ST	ALFONSO CASTILLO		3942 WILLIAMS ST	DENVER	CO	80216	2956862	34.5	587.1
2321	ELYRIA	4351 RACE ST	BERNADETTE D TANGREN		4351 RACE ST	DENVER	CO	80216	303-296-8225	206.5	643.9
2341	ELYRIA	4620 RACE ST	VIBHA SHARMA		1641 W 116TH CT	WESTMINSTER	CO	80234	303-469-5950	16.9	598.6
2334	ELYRIA	4654 HIGH ST	DAVID A SMITH		2015 E 26TH AVE	DENVER	CO	80205		27.5	585.6
2346	ELYRIA	4658 WILLIAMS ST	JOSIE P GONZALES	ERNEST SANCHEZ	4658 WILLIAMS ST	DENVER	CO	80216		144.6	559.4
2370	ELYRIA	4712 BRIGHTON BLVD	FRED C & PATRICIA K MCPECK		4700 BRIGHTON BLVD	DENVER	CO	80216	303-232-5824	5.5	580.1
2397	ELYRIA	4736 VINE ST	TRINCLINO GARCIA		4740 VINE ST	DENVER	CO	80216		16.1	562.6
2379	ELYRIA	4781 RACE ST	DAVID GUTIERREZ		4781 RACE ST	DENVER	CO	80216	303-298-7721	11.9	618.3
12	FIVE POINTS	3521 DELGANY ST	DMC PROPERTY CORP		1321 DELAWARE ST	DENVER	CO	80204	303-623-2245	30.8	835.1
19	FIVE POINTS	3646 DELGANY ST	LARRY LEE BURGESS		3 RED FOX LN	LITTLETON	CO	80127	303-972-9399	21.4	725.2
2650	FIVE POINTS	3720 DELGANY ST	RICHARD TRZCINSKI		3720 DELGANY ST	DENVER	CO	80205	2949496	20.5	609.5
3	FIVE POINTS	3721 MARION ST	SAMUEL & BENIGNA SARMIENTO		3721 MARION ST	DENVER	CO	80205	303-298-8586	22.4	597.9
2648	FIVE POINTS	3742 DELGANY ST	TONY GONZALES		3742 DELGANY ST	DENVER	CO	80205	2969576	335.3	516.6
22	FIVE POINTS	3746 BRIGHTON BLVD	ETHEL M & DAVID J POPISH		3746 BRIGHTON BLVD	DENVER	CO	80216		75.6	565.5
2646	FIVE POINTS	3754 DELGANY ST	BRIAN MONDRAGON		3754 DELGANY ST	DENVER	CO	80205	2938429	38.4	553.9
2407	GLOBEVILLE	4143 FOX ST	RICKY R & MARILYN DEWITT	GERALD LEE DEWITT	6030 JOHNSON WAY	ARVADA	CO	80004	303-424-4092	26.7	782.5
3616	GLOBEVILLE	4205 FOX ST	SALVADOR & CONSUELO DELATORRE		5970 S WOLFF CT	LITTLETON	CO	80123	7953203	12.0	635.4
3621	GLOBEVILLE	4422 DELAWARE ST	STEPHEN W MADSEN		2533 W 43RD AVE W MOFFAT PL	DENVER	CO	80221	4771466	258.7	517.6
3621	GLOBEVILLE	4422 DELAWARE ST	ERIKS E LINDEMANIS		6592 S DOVER ST	LITTLETON	CO	80123	303-550-2438	258.7	517.6
2993	SWANSEA	4309 COLUMBINE ST	MANUEL N & CONSUELO ESCORZA		4309 COLUMBINE ST	DENVER	CO	80216	2956079	32.8	575.8
2056	SWANSEA	4314 JOSEPHINE ST	CLORINDA SANTISTEVAN		4314 JOSEPHINE ST	DENVER	CO	80216	303-296-8025	237.5	579.0
3070	SWANSEA	4315 STEELE ST	JOHN NAVARRO		4315 STEELE ST	DENVER	CO	80216	2989064	314.7	296.5
3068	SWANSEA	4318 SAINT PAUL ST	HORACIO & SHANNON DELAO		4318 SAINT PAUL ST	DENVER	CO	80216	303-296-3983	287.0	151.6
3048	SWANSEA	4319 FILLMORE ST	DON R & SHARON A FOWLER		4319 FILLMORE ST	DENVER	CO	80216	2923234	311.7	269.2
2060	SWANSEA	4340 JOSEPHINE ST	ABIGAIL RAMIREZ		4340 JOSEPHINE ST	DENVER	CO	80216	303-292-5762	269.1	775.7
3111	SWANSEA	4442 JOSEPHINE ST	RICK KEENAN		8018 W 78TH WAY	ARVADA	CO	80005	303-423-6000	65.0	601.2
3080	SWANSEA	4459 THOMPSON CT	ROY AND BARBARA ROMER						293-2955	274.4	249.2
3080	SWANSEA	4459 THOMPSON CT	JULIE IBARRA		4459 THOMPSON CT	DENVER	CO	80216	303-293-2358	274.4	249.2
3132	SWANSEA	4539 COLUMBINE ST	JAMIE RAMIREZ		4539 COLUMBINE ST	DENVER	CO	80216	292-5762	188.2	678.8
3484	SWANSEA	4616 RACE ST	DMC PROPERTY CORP		1321 DELAWARE ST	DENVER	CO	80204	303-623-2245	12.3	627.6
3168	SWANSEA	4635 FILLMORE ST	ANN TRUJILLO		4635 FILLMORE ST	DENVER	CO	80216	295-7702	300.6	363.8
3298	SWANSEA	4640 FILLMORE ST	IRMA E & ARTHUR A CROFF		4640 FILLMORE ST	DENVER	CO	80216		344.5	267.1
3297	SWANSEA	4650 FILLMORE ST	DOROTHEA E C SINGER		4650 FILLMORE ST	DENVER	CO	80216	296-4172	379.7	239.3
3111	SWANSEA	4442 JOSEPHINE ST	RICK KEENAN		8018 W 78TH WAY	ARVADA	CO	80005	303-423-6000	65.0	601.2

Table 2 (Continued)

## Property Owner Details for Removal Action Candidate Properties

Property ID	Neighborhood	Property Address	Owner Name	Second Owner Name	Owner Mailing Address				Owner Phone Number	Arsenic Exposure Point Conc. (mg/Kg)	Lead Exposure Point Conc. (mg/Kg)
3501	SWANSEA	4653 HIGH ST	WALTER PINE		4653 HIGH ST	DENVER	CO	80216	296-3969	326.0	480.9
3174	SWANSEA	4660 MILWAUKEE ST	GILBERT P MONDRAGON		4660 MILWAUKEE ST	DENVER	CO	80216	295-3764	304.5	311.6
2157	SWANSEA	4680 CLAYTON ST	FRANCISCO Z & CECELIA AREVALO		4680 CLAYTON ST	DENVER	CO	80216	303-292-6280	102.5	557.7
2191	SWANSEA	4701 FILLMORE	WALTER SCOTT WARD	RUBY CLARA WARD	4701 FILLMORE ST	DENVER	CO	80216		450.0	333.3
3344	SWANSEA	4705 CLAYTON ST	MARGARET MAXINE RADCLIFF		4705 CLAYTON ST	DENVER	CO	80216	296-4632	367.9	322.0
3554	SWANSEA	4710 RACE ST	MICHAELA HERNANDEZ		4710 RACE ST	DENVER	CO	80216	293-2863	12.6	583.1
3607	SWANSEA	4744 GAYLORD ST	LEOPALDO MORENO		4744 GAYLORD ST	DENVER	CO	80216	292-6230	277.9	296.7
3607	SWANSEA	4744 GAYLORD ST	RAFAEL GUTIERREZ		4744 GAYLORD ST	DENVER	CO	80216	303-675-0918	277.9	296.7
3536	SWANSEA	4775 HIGH ST	BENITO & MARY ZAMORA		2745 CARNATION WAY	THORNTON	CO	80229	296-4486	254.5	411.1
3520	SWANSEA	4775 RACE ST	BENNIE ALARCON		2024 W 46TH AVE	DENVER	CO	80211	296-4250	25.6	551.0
3275	SWANSEA	4780 COLUMBINE ST	DAVID SILVA	MARIANA CHAVEZ	4780 COLUMBINE ST	DENVER	CO	80216	303-308-9657	156.2	572.8
3275	SWANSEA	4780 COLUMBINE ST	IGHALIOTT MOLINA		4780 COLUMBINE ST	DENVER	CO	80216	292-5785	156.2	572.8
3597	SWANSEA	4782 CLAUDE CT	GLEN DWAYNE HARVEY		4782 CLAUDE CT	DENVER	CO	80216	297-3407	30.9	544.6
3581	SWANSEA	4785 CLAUDE CT	DELIA VIOLA ORTEGA		4785 CLAUDE CT	DENVER	CO	80216	297-3946	248.0	416.4
3910	SWANSEA	4809 MILWAUKEE ST	ISABELLA PENA		4809 MILWAUKEE ST	DENVER	CO	80216	303-298-7831	382.0	210.1
3712	SWANSEA	4811 CLAYTON ST	ALBERT & ERMA L PEREZ		4811 CLAYTON ST	DENVER	CO	80216	296-6113	314.2	216.3
2491	SWANSEA	4830 CLAYTON ST	SAMUEL & THELMA MAE GREEN		4830 CLAYTON ST	DENVER	CO	80216		337.5	342.2
3702	SWANSEA	4850 CLAYTON ST	JAVIER & MARGARITA MONTES LARA		4850 CLAYTON ST	DENVER	CO	80216	296-2521	265.8	245.0
3865	SWANSEA	4909 MILWAUKEE ST	JOHN R & FRANCES M JIMENEZ		4909 MILWAUKEE ST	DENVER	CO	80216	297-0091	280.5	317.3
3872	SWANSEA	4920 MILWAUKEE ST	MARIA BRIZUELA		4920 MILWAUKEE ST	DENVER	CO	80216	296-1210	291.4	345.9
2478	SWANSEA	4932 STEELE ST	RAFAEL ARAUJO LOMELI	DAVID LARA RUIZ	4932 STEELE ST	DENVER	CO	80216	303-308-0799	270.9	114.4
3676	SWANSEA	4935 ADAMS ST	JOSE S & ROSE GARCIA		4935 ADAMS ST	DENVER	CO	80216	2964042	299.6	158.7
2557	SWANSEA	4950 MILWAUKEE ST	GILBERTO LOMELI		4950 MILWAUKEE ST	DENVER	CO	80216	303-296-6191	270.0	364.7
3828	SWANSEA	4965 SAINT PAUL ST	EDMUND C WOLF		11032 WOLFF WAY	WESTMINSTER	CO	80030	469-2521	378.1	313.6
3821	SWANSEA	4995 STEELE ST	RAYMOND SANTOS		4995 STEELE ST	DENVER	CO	80216	296-4537	273.0	264.5
3684	SWANSEA	5044 STEELE ST	FELISA ORTEGA		5044 STEELE ST	DENVER	CO	80216	296-2983	157.7	605.7

Note: Some properties have entries on multiple lines to show details for multiple owners.



**Appendix B**  
**Health and Safety Scope of Work**

**Health and Safety Scope of Work**  
**Appendix B**  
**Vasquez Boulevard I-70 Removal Action**  
**Denver CO**

1. **General.** The Rapid Response Contractor responsible for the tasks defined by this scope of work shall review all information provided and develop the necessary documents which contain the health and safety criteria, procedures, and practices sufficient to protect on-site personnel, the environment, and potential off-site receptors from the chemical and physical hazards particular to this site. The Contractor shall utilize the services of a Certified Industrial Hygienist (CIH) experienced in hazardous waste site operations to oversee the development and implementation of the health and safety documents required by this section. If the information made available is insufficient to allow the Contractor to develop these documents, a description of all additional information required shall be prepared and submitted to the Contracting Officer (CO).

2. **Regulatory Requirements.** All site investigation activities and health and safety documents required by this scope of work shall comply with and reflect the following regulations and appropriate guidance publications, as a minimum:

2.1 Federal Acquisition Regulation, F.A.R. Clause 52.236-13: Accident Prevention.

2.2 U.S. Army Corps of Engineers (USACE), Safety and Health Requirements Manual, EM 385-1-1 (September 1996).

2.3 Occupational Safety and Health Administration (OSHA) Construction Industry Standards, 29 CFR 1926, and General Industry Standards, 29 CFR 1910; especially 29 CFR 1926.65 - "Hazardous Waste Operations and Emergency Response", 29 CFR 1910.1000 - "Air Contaminants", 29 CFR 1926.650-.652 - "Excavations" and 29 CFR 1926.62, "Lead".

2.4 NIOSH/OSHA/USCG/EPA, "Occupational Safety and Health Guidance Manual for Hazardous Waste Site Activities", October 1985.

2.5 Other applicable Federal, State, and local safety and health requirements.

3. **Documents.** The following health and safety documents are required to be developed under this scope of work. Avoid providing material of a general nature, not specifically related to this project or site. Information readily available in standard texts should be repeated only to the extent necessary to meet the requirements of this scope. The Safety and Health Program will contain general information required by the referenced OSHA standards and EM 385-1-1 which is applicable to all hazardous waste activity efforts performed by the contractor. The Site Safety and Health Plan should be a brief document addressing only site-specific safety and health requirements and procedures based upon site-specific conditions. Duplication of the general information contained in the Safety and Health Program is unwanted.

3.1 **Safety and Health Program.** All contractors and their subcontractors performing on-site activities at hazardous waste sites are required by regulation to develop and maintain a written Safety and Health Program in compliance with OSHA standard 29 CFR 1926.65(b)(1) through (b)(4). Written certification that such a program has been prepared and implemented shall be submitted to the CO as a preface to the required Site Safety and Health Plan (SSHP). This program, including updates, shall be made available to the CO in its entirety upon request. Agreements under the Rapid Response Contract have fulfilled this requirement.

3.2 **Contractor Site Safety and Health Plan (SSHP).** The Site Safety and Health Plan required by 29 CFR 1926.65(b)(4) shall be prepared by the Contractor and submitted to the Contracting Officer for review and approval prior to the commencement of any on-site work activity to be performed by the Contractor and/or his subcontractors. This SSHP shall describe the health and safety procedures, practices, and equipment to be implemented and utilized in

order to protect affected personnel from the potential hazards associated with the site-specific tasks to be performed. The level of detail provided in the SSHP shall be tailored to the type of work, complexity of operations to be accomplished, and hazards anticipated. **It is anticipated that this project will involve the various tasks associated with excavation and disposal of soil contaminated with lead, and restoration of excavated areas. The site consists of a residential area.** All topics required by OSHA standard 1926.65(b)(4), and those described below, shall be addressed in the SSHP. Where the use of a specific topic is not applicable to the project, provide a negative declaration to establish that adequate consideration was given the topic, and give a brief justification for its omission.

**3.2.1 Site Description and Contamination Characterization.** Describe the location, topography, and approximate size of each site, the on-site jobs/tasks to be performed, and the duration of planned site activities. Compile a complete list of the contaminants found or known to be present in site areas to be impacted by the work to be performed. Include chemical names, concentration ranges, media in which found, applicable regulatory clean-up levels, locations on-site, and estimated quantities/volumes to be impacted by site work, if known.

**3.2.2 Hazard/Risk Analysis.** Identify the chemical, physical, biological, and safety hazards of concern for each site task and/or operation to be performed. Selection of chemicals as indicators of hazard shall be based on media concentrations, toxicity, volatility or potential for air entrainment at hazardous levels, and frequency of detection. Describe chemical and physical properties of selected contaminants, sources and pathways of employee exposures, anticipated on and off-site exposure level potentials, and regulatory (including Federal, State, and local) or recommended protective exposure standards. Specify and justify "action levels" based upon potential airborne exposures and direct skin contact. Action levels for upgrades/downgrades in levels of personnel protection, implementation of engineering and/or work practice controls, emergency evacuation of on-site personnel, and for the prevention and/or minimization of public exposures to hazards created by site activities shall be identified. Air monitoring/sampling shall be performed in accordance with Paragraph 3.2.8 : "Exposure Monitoring/Air Sampling Program" below, the resulting data compared with established "action levels", and appropriate corrective actions initiated as necessary.

**3.2.3 Accident Prevention.** The SSHP will serve as the Accident Prevention Plan (APP) and activity hazard analyses (phase plans), required by F.A.R. Clause 52.236-13, and Paragraphs 01.A.07 through 01.A.11 and Figure 1-1 (pg. 4) of USACE EM 385-1-1 (1996). The APP shall be contained in the SSHP as a separate definable section, titled "Accident Prevention Plan". Therefore a separate APP is not necessary. The activity hazard analysis is an ongoing process from initiation of plan preparation through the implementation and completion of the field work. This is especially true under the Rapid Response Contracts. Therefore, the activity hazard analysis shall consist of two specific phases, the first of which shall be detailed in the SSHP submittal process to meet the intent of 29 CFR 1926.65 and paragraph 3.2, "Contractor Site Safety and Health Plan" of this section. The phase safety plans shall be outlined and developed to the full extent possible prior to SSHP submittal. Phase two of the activity hazard analysis (phase plans) as required by the APP shall be developed on-site by the Contractor's supervisory staff prior to beginning any specific activity and incorporated into the SSHP on an ongoing basis throughout the duration of the field activities. Any additional topics required by EM 385-1-1, but not specifically covered in Paragraph 3.2. of this scope of work, shall be addressed in the Accident Prevention section of the SSHP under the phase safety field development process. Daily safety and health inspections shall be conducted to determine if operations are being performed in accordance with the SSHP, USACE and OSHA regulations, and contract requirements. In the event of an accident/incident, the Contractor shall immediately notify the CO. Within two (2) working days of any reportable accident, the Contractor shall complete and submit to the CO an Accident Report on ENG Form 3394 in accordance with AR 385-40 and USACE Supplements to that regulation.

**3.2.4 Staff Organization, Qualifications, and Responsibilities.** Discuss the organizational structure, including lines of authority (chain of command), and overall responsibilities of the contractor and all subcontractors for site activities, including supervisor/employee relationships. Summarize the operational and health and safety responsibilities and qualifications of each key person identified. Specifically: (1) A Certified Industrial Hygienist (CIH) with experience in hazardous waste site operations shall be responsible for the development, implementation, and oversight of the Safety and Health Program and SSHP. The SSHP shall be signed and dated by the CIH prior to

submittal; (2) A fully trained and experienced Site Safety and Health Officer (SSHO), responsible to the contractor and the CIH, may be delegated to implement and continually enforce the safety and health program and site-specific plan elements on-site; and (3) At least two persons certified in first aid/CPR by the Red Cross, or equivalent agency, shall be continuously present on-site during site operations.

**3.2.5 Training.** All personnel performing on-site activities shall have completed applicable training in accordance and compliance with 29 CFR 1926.65(e). In addition, site-specific training covering site hazards, procedures, and all contents of the approved SSHP shall be conducted by the SSHO for on-site employees and visitors prior to commencement of work or entering the site. The type, duration, and dates of all employee training performed shall be listed by employee name and certified in the SSHP.

**3.2.6 Personal Protective Equipment (PPE).** In accordance with 29 CFR 1926.65(g)(5), a written Personal Protective Equipment (PPE) program which addresses all the elements listed in that regulation, and which complies with respiratory protection program requirements of 29 CFR 1910.134 is to be included in the Safety and Health Program. Therefore, the SSHP shall detail the minimum PPE ensembles (including respirators) and specific materials from which the PPE components are constructed for each site-specific task/operation to be performed, based upon the hazard/risk analysis performed above. When preparing PPE ensembles for protection against highly toxic or mobile chemicals, list any pertinent material breakthrough times, as provided by the PPE manufacturer. Components of levels of protection (A,B,C,D and modifications) must be relevant to site-specific conditions, including heat stress potential and safety hazards. Include site-specific procedures for on-site fit-testing, cleaning, maintenance, inspection, and storage.

**3.2.7 Medical Surveillance.** All personnel performing on-site activities shall be participants in an ongoing medical surveillance program, meeting the requirements of 29 CFR 1926.65 and ANSI Z-88.2. A description of the general medical surveillance program is to be included in the Safety and Health Program. All medical surveillance protocols and examination results shall be reviewed by a licensed physician who is certified in Occupational Medicine by the American Board of Preventative Medicine, or who, by necessary training and experience, is Board-eligible. The SSHP shall only describe the content and frequencies of any additional medical tests, examinations, and/or consultations determined necessary by the physician due to probable site-specific conditions, potential occupational exposures, and required protective equipment. Certification of participation in the medical surveillance program, the date of last examination, and name of reviewing occupational physician shall also be included for each affected employee. The written medical opinion from the attending physician required by 29 CFR 1926.65(f)(7) shall be made available upon request to the CO for any site employee.

**3.2.8 Exposure Monitoring/Air Sampling Program (Personal and Environmental).** Where it has been determined that there may be employee exposures to and/or off-site migration potentials of hazardous airborne concentrations of hazardous substances, appropriate direct-reading (real-time) air monitoring and integrated (time-weighted average (TWA)) air sampling shall be conducted in accordance with applicable regulations (OSHA, EPA, State). Both air monitoring and air sampling must accurately represent concentrations of air contaminants encountered on and leaving the site. Sampling and analytical methods following NIOSH (for on-site personnel and site perimeter locations) and/or EPA (for site perimeter or off-site locations) criteria shall be appropriately utilized. Personnel samples shall be analyzed only by laboratories successfully participating in and meeting the requirements of the American Industrial Hygiene Association's (AIHA) Proficiency Analytical Testing (PAT) or Laboratory Accreditation programs. Meteorological monitoring shall be performed on-site as needed and used as an adjunct in determining perimeter and any off-site monitoring/sampling locations. Where perimeter monitoring/sampling is not deemed necessary, provide a suitable justification for its exclusion. Noise monitoring and radiation monitoring (alpha, beta, gamma) shall be conducted as needed, depending on the site hazard assessment. All monitoring/sampling results shall be compared to "action levels" established pursuant to Paragraph 3.2.2 : "Hazard/Risk Analysis", above, to determine acceptability and need for corrective action.

**3.2.9 Heat and Cold Stress Monitoring.** Heat and/or cold stress monitoring protocols shall be implemented, as appropriate. Work/rest schedules shall be determined based upon ambient temperature, humidity, wind speed (wind chill), solar radiation intensity, duration and intensity of work, and protective equipment ensembles.

Minimum required physiological monitoring protocols which will affect work schedules shall be developed. In cases where impervious clothing is worn (full-body), the NIOSH/OSHA/USCG/EPA "Occupational Safety and Health Guidance Manual for Hazardous Waste Site Activities" protocol for prevention of heat stress shall be followed, and heat stress monitoring shall commence at temperatures of **70 degrees Fahrenheit and above**. Where impervious clothing is not worn, the most current published ACGIH heat stress standard (TLV) shall be used. For cold stress monitoring to help prevent frostbite and hypothermia, the most current published ACGIH cold stress standard shall be referenced and followed, as a minimum.

**NOTE:** If either heat or cold stress is not anticipated due to the season or local climate, provide a negative declaratory statement as mentioned in section 3.2.

**3.2.10 Standard Operating Safety Procedures, Engineering Controls and Work Practices.** Address the following elements as a minimum: (1) Site rules/prohibitions (buddy system, eat/drink/smoking restrictions, etc.); (2) Material handling procedures (soils, liquids, radioactive materials); (3) Drum/container handling procedures and precautions (opening, sampling, overpacking); (4) Confined space entry procedures; (5) Hot-work, sources of ignition, and electrical safety (ground-fault protection, overhead power line avoidance, etc.); (6) Excavation safety; (7) Machine guarding; (8) Fall protection; (9) Illumination; (10) Sanitation; and (11) Engineering controls.

**3.2.11 Site Control Measures.** Include site map(s) containing work zone delineation and access points. Describe on-site and off-site communications, security (physical and procedural), and general site access.

**3.2.12 Personal Hygiene and Decontamination.** Specify necessary facilities and their locations. Detail standard operating procedures, frequencies, supplies and materials to accomplish decontamination of site personnel.

**3.2.13 Equipment Decontamination.** Specify necessary facilities, equipment, and their locations. Detail procedures, frequencies, supplies and materials, and methods to determine adequacy for the decontamination of equipment used on-site.

**3.2.14 Emergency Equipment and First Aid Requirements.** The following items, as appropriate, shall be immediately available for on-site use: (1) First aid equipment and supplies approved by the consulting MD; (2) Emergency eyewashes/showers (comply with ANSI Z-358.1, 1910.151(c) ); (3) Emergency respirators (worst-case appropriate); (4) Spill control materials and equipment; and (5) Fire extinguishers (**specify type- i.e., 10 B/C , size, locations**).

**3.2.15 Emergency Response and Contingency Procedures (On-Site and Off-Site).** This section of the SSHP shall contain an Emergency Response Plan in compliance with 29 CFR 1926.65(l), which addresses the following elements, as a minimum: (1) Pre-emergency planning and procedures for reporting incidents to appropriate government agencies for potential chemical exposures, personal injuries, fires/explosions, environmental spills and releases, discovery of radioactive materials; (2) Personnel roles, lines of authority, communications; (3) Posted instructions and a list of emergency contacts: (physician, nearby medical facility, fire and police departments, ambulance service, federal/state/local environmental agencies, CIH, Contracting Officer); (4) Emergency recognition and prevention; (5) Site topography, layout, and prevailing weather conditions; (6) Criteria and procedures for site evacuation (emergency alerting procedures/employee alarm system, emergency PPE and equipment, safe distances, places of refuge, evacuation routes, site security and control); (7) Specific procedures for decontamination and medical treatment of injured personnel; (8) Route maps to nearest pre-notified medical facility; (9) Criteria for initiating community alert program, contacts, and responsibilities; and (10) Critique of emergency responses and follow-up.

**3.3 Logs, Reports and Recordkeeping.** The following logs, reports, and records shall be developed, maintained, and submitted to the CO at the conclusion of the site work: (1) Training logs (site-specific, visitor); (2) Daily safety inspection logs (may be part of the Daily QC Reports); (3) Employee/visitor register; (4) Environmental and personal exposure monitoring/sampling results.

4. **Document Revisions, Addenda, and Field Modifications.** Review comments issued prior to SSHP approval shall be incorporated by revising and reissuing affected pages. If major revisions are necessary, the entire Plan shall be resubmitted for review and approval. Minor changes affecting only a few pages may be made by addenda sheets and resubmitted. Once on-site, unanticipated field conditions encountered which were not addressed in the approved SSHP shall be immediately reported to the CO. Field activities in such areas shall be halted until the SSHP has been modified to reflect changed conditions and reviewed/approved by the CO.

5. **CO-Approved Visitors.** The Contractor shall continuously maintain on-site a minimum of four (4) sets of protective equipment (except for air-purifying respirators, prescription safety glasses, and safety shoes) for government visitor usage. These ensembles shall include all PPE specified in the SSHP. If protective clothing is included, at least one set shall be size X-large.

6. **Special Considerations.** (A) All site workers shall receive pre- and post-biological monitoring for lead, as detailed in the OSHA lead standard (29 CFR 1926.62). (B) Handwashing facilities shall be available and employees shall wash hands and face prior to leaving the site. If employee exposure to lead exceeds the PEL, showers shall be available and used prior to leaving the site. (C) Water misting of the excavated area shall be provided to minimize particulate emissions.

-----

**Appendix C**  
**Chemistry Instructions**

DRAFT  
SCOPE OF SERVICES  
FOR  
SAMPLING AND ANALYSIS

Vasquez Boulevard/I 70  
Denver, CO

CHEMISTRY INSTRUCTIONS  
February 18, 2003

1 Contractor Sampling and Analysis Plan. This appendix describes the Contractor's responsibilities with respect to the sampling and analysis entailed in this work effort. This shall include any sampling and analytical testing required by State of Colorado and Federal regulations as well as potential disposal facilities. The Contractor shall be responsible for the development and implementation (upon USACE approval) of the Sampling and Analysis Plan, consisting of a Field Sampling Plan and Quality Assurance Project Plan. The SAP is intended to be a site specific guidance for the project team for the required sampling and analysis. The SAP shall detail all field activities, laboratory activities, and documentation related to the chemical data. The SAP shall include a list of equipment to be taken to the field, details of the sampling locations and methodologies including field screening methods to be employed, decontamination procedures, quality control procedures, sample custody and shipments information, analytical methods, and all additional items described within this appendix and other portions of this scope. Number and types of samples and bottle/preservation requirements shall be presented in tabular form.

2 Project Sampling and Analysis Requirements. Although not specifically mentioned in the following paragraphs the sampling shall include 10% Field duplicates 5% spike/spike duplicate samples.

2.1 Garden and Flowerbed Sampling. At the direction of USACE, the contractor shall sample designated gardens and/or flowerbeds to determine if the lead and arsenic levels are below the action levels and may be excluded from the removal action. Two 0-12 inch depth grab samples shall be collected from each garden or flowerbed and composited into a single sample for analysis by SW-846 Method 6010.

2.2 Disposal Analysis. One composite sample will be collected for every twenty residential properties. The composite sample will be prepared by randomly selecting four of the



properties for sampling. At each property sampled, the planned excavation area will be divided into four approximately equal areas sampling unites. Soil cores from the 0-12 inch delpth will be retrieved from the approximate center of each unit and thoroughly blended. These samples shall also be used for soil classification.

The required analysis is as follows:

TCLP RCRA Metals	1311/6010&7000's
TCLP VOC	1311/8260
TCLP SVOC	1311/8270
TCLP Pest/Herb	1311/8081, 8150
Soil Classification	ASTM D2488

2.3 Backfill Material. Any material brought on site for use as backfill shall be sampled at a rate of one composite sample per source area or one per 5000 yards which ever is more frequent.

TAL Metals	6010&7000's
TCL VOC	8260
TCL SVOC	8270
TCL Pest/PCB's	8081/8082
Soil Classification	ASTM D2488

2.4 Wastewaters. All wastewater generated shall be containerized and analyzed for disposal only. The required analysis shall be coordinated with the local POTW and other potential disposal facilities. If the wastewater exceed the acceptance criteria of the above facilities, the Contractor shall consider filtration of the wastewater prior to disposal, which shall require the Contractor to resample the wastewater for those parameters which exceed the criteria (anticipated to be lead and arsenic only).

TAL Metals	6010&7000's
TCL VOC	8260
TCL SVOC	8270
TCL Pest/PCB's	8081/8082
Oil and Grease	413

### 3 Decontamination.

3.1 Decontamination Procedures. All sampling equipment shall be disposable, stainless steel, or Teflon and shall undergo decontamination procedures as follows (except disposable):

3.1.1 Non-phosphate laboratory detergent wash and brushing to remove large particles;

3.1.2 A tap water rinse;

3.1.3 A double deionized water rinse.

### 4 Sample Handling, Preservatives, and Holding Times. The samples

for off-site chemical analysis are to be placed in appropriately labeled sample containers, preservatives added (if required), enclosed within a plastic ziplock bag, and placed in a chilled cooler. Once the samples for the day are acquired, the required paperwork shall be completed, the cooler packed with fresh coolant and packing material, custody seals attached, the samples shall be shipped or delivered to the designated laboratory. Sample packaging, shipping, and chain-of-custody shall follow all applicable USEPA, USACE and State of Colorado guidelines, and shall be detailed in the SAP. No sample shall be held on site for more than twenty-four (24) hours.

5 Documentation. The system for identifying and tracking the samples shall be described, and shall include the recording of field data in permanently bound notebooks along with Daily Quality Control Reports. These shall be faxed to the USACE PM on a weekly basis or at the conclusion of each sampling event.

6 Sample Labels. Correct sample labeling and the corresponding notation of the sample identification numbers in the field logbook are necessary to prevent misidentification of samples and their eventual results. The SAP shall explicitly define the numbering system to such detail that sample results may be tracked to the corresponding field samples. Special care must be given to the numbering of the field duplicates as to keep them blind to the laboratory. All sample labels shall be filled out legibly with indelible ink, affixed to the sample bottle, and covered with clear tape. These labels are to include the following at a minimum:

6.1 Name/initials of the collector;

6.2 Date and time of collection;

6.3 Place of collection;

6.4 Sample ID number (must uniquely identify each sample in regard to project, station location, etc.);

6.5 Analysis required;

6.6 Preservatives added;

6.7 Designation between "grab" or "composite" samples.

7 Chain-of-Custody/Sample Shipment. Chain-of-Custody shall be maintained for all samples collected during this project. It is very important that the information on the Chain-of-Custody form match the information on the sample bottles. Chain-of-Custody forms shall be completed for every cooler, and shall be sealed in a zip-lock bag and taped to the inside of the lid of the cooler. A

minimum of two signed custody seals will be required on the outside of the coolers, one on the front and one on the rear of the cooler both covered with clear tape. Chain-of-Custody procedures shall be in accordance with USACE Sample Handling Protocol and USEPA procedures. All samples shall be shipped via overnight delivery or hand delivered to the receiving laboratory. The Contractor shall define, in the SAP, the name, address, telephone number, and a POC at the laboratory which will be utilized for the analysis of the samples. The receiving laboratory shall be notified by the Contractor approximately 1 week prior to the arrival of the first sample shipment and at least twenty-four (24) hours notice given for Saturday delivery.

8 Analytical. An appropriate analytical protocol shall be proposed by the Contractor for the samples. The methods to be used, along with appropriate digestion/extraction methods, must be specified in the SAP unless otherwise approved by the Corps of Engineers. These methods must be EPA-approved and consistent with any applicable State of Colorado requirements. These methods must be followed explicitly including all quality control procedures detailed in the respective methods unless otherwise authorized by the Corps of Engineers. All data packages shall be comparable to CLP Level IV packages.

9 Method Detection Limits. Detection limits for the analyses shall be according to applicable EPA methodologies or Standard Methods unless otherwise stated. Detection limits shall be summarized in the SAP. Data reports shall also list specific detection limits for constituents analyzed.

10 Calibration Procedures/Frequency. Calibration of the analytical instrumentation to be used for this project is to be outlined in the SAP. Calibration requirements and the frequency associated with them shall be in accordance with the individual methods.

11 Laboratory Quality Control. The Contractor shall perform the quality control procedures as described in the reference methods. This includes reagent blanks, laboratory replicates, matrix spikes and duplicates, and surrogate standards. If acceptable windows (as outlined in SW-846 for matrix spike/surrogate recoveries are not met in the first analytical run, the laboratory shall be responsible to rerun the sample to prove matrix affects at no expense to the government. The Contractor shall summarize windows of acceptability for spikes/surrogates and actions to be taken in the event of out-of-control situations in the SAP. The SAP shall describe in detail the laboratory QC procedures including specific compounds and their performance criteria.

12 Laboratory Turn Around Time. The Contractor shall require no

longer than a 30 day turn around time (from receipt of samples) for the analytical results from the laboratory. To avoid down-time at the site, quick turn-around-time may be warranted. Any quick turn-around-times used shall be proposed within the SAP.

13 QA/QC Problems. All QA/QC problems in the field or in the laboratory shall be reported immediately to the USACE on-site Construction Representative and to the USACE Project Engineer within twenty-four (24) hours.

14 Data Assessment and Evaluation. Data assessment and evaluation for this project shall be performed by the Contractor. A plan for this activity shall be proposed in the required SAP. Data, including all quality control information, are to be reported on forms as presented in SW-846 (third edition).

**Appendix D**  
**Wage Rates**

**From:** Saville, Angela D NWO  
**Sent:** Tuesday, February 11, 2003 10:29 AM  
**To:** Darling, Mary N NWO  
**Subject:** FW: Davis Bacon Rates

-----Original Message-----

**From:** Bluml, Cindy NWO  
**Sent:** Tuesday, February 11, 2003 10:20 AM  
**To:** Saville, Angela D NWO  
**Subject:** RE: Davis Bacon Rates



Attached are the applicable wage rates for your request (CO020012, Heavy, dated 1/10/03).

The covered area is Denver-Boulder SMSA-2080, Denver Co. a part.

Minority % is 13.8.

Female % is 6.9.

-----Original Message-----

**From:** Saville, Angela D NWO  
**Sent:** Monday, February 10, 2003 12:39 PM  
**To:** Bluml, Cindy NWO  
**Subject:** Davis Bacon Rates

<< File: LABR-DO14PRI.doc >>

Angela Saville  
Contract Specialist  
(402) 221-4168

BRS Document Viewer  
General Decision Number CO020012

General Decision Number CO020012      Superseded General Decision No.  
CO010012

State: Colorado  
Construction Type:  
HEAVY

County(ies):

ADAMS	DOUGLAS	MESA
ARAPAHOE	EL PASO	PUEBLO
BOULDER	JEFFERSON	WELD
DENVER	LARIMER	

HEAVY CONSTRUCTION PROJECTS

Modification Number	Publication Date
0	03/01/2002
1	03/08/2002
2	04/05/2002
3	05/03/2002
4	06/21/2002
5	07/05/2002
6	07/19/2002
7	08/16/2002
8	09/13/2002
9	12/13/2002
10	01/10/2003

COUNTY(ies):

ADAMS	DOUGLAS	MESA
ARAPAHOE	EL PASO	PUEBLO
BOULDER	JEFFERSON	WELD
DENVER	LARIMER	

\* ASBE0028A 01/01/2003

	Rates	Fringes
ASBESTOS WORKERS/INSULATORS (Includes application of all insulating materials, protective coverings, coatings and finishings to all types of mechanical systems)	18.57	5.95

-----  
BRCO0007F 01/01/2002

	Rates	Fringes
ADAMS, ARAPAHOE, BOULDER, DENVER, DOUGLAS, AND JEFFERSON COUNTIES		
BRICKLAYERS	21.27	6.60

-----  
\* BRCO0007G 05/01/2002

	Rates	Fringes
EL PASO AND PUEBLO COUNTIES		
BRICKLAYERS	21.27	6.60

-----  
\* CARP2834A 05/01/2002

	Rates	Fringes
MILLWRIGHTS	23.09	6.61

-----  
ELEC0012D 09/01/2002

	Rates	Fringes
PUEBLO COUNTY ELECTRICIANS:		
Electrical work where the total		

cost is \$200,000 or less	18.98	7.94
Electrical work where the total		
cost is over \$200,000	23.74	7.94

-----  
ELEC0068A 06/01/2002

	Rates	Fringes
ADAMS, ARAPAHOE, BOULDER, DENVER, DOUGLAS, JEFFERSON, LARIMER, AND WELD COUNTIES		
ELECTRICIANS	26.91	8.64

-----  
ELEC0111A 09/01/2002

	Rates	Fringes
LINE CONSTRUCTION:		
Lineman	27.36	20.75%+2.30
Groundman	14.05	20.75%+2.30

-----  
\* ELEC0113C 01/01/2003

	Rates	Fringes
EL PASO COUNTY		
ELECTRICIANS	24.10	3%+10.59

-----  
ELEC0969B 06/01/2000

	Rates	Fringes
MESA COUNTY		
ELECTRICIANS	20.35	4%+5.14

-----  
ENGI0009A 05/01/2002

	Rates	Fringes
POWER EQUIPMENT OPERATORS:		
Blade:		
Rough	19.92	5.47
Finish	20.22	5.47
Bulldozer	19.92	5.47
Cranes:		
50 tons and under	20.07	5.47
51 to 90 tons	20.22	5.47
91 to 140 tons	20.37	5.47
141 tons and over	21.13	5.47
Forklift	19.57	5.47
Mechanic	20.07	5.47
Oiler	19.22	5.47
Roller:		
Self-propelled, rubber tires		
under 5 tons	19.57	5.47
Self-propelled, all types		
over 5 tons	19.92	5.47
Scraper:		
Single bowl under 40 cubic		
yards	20.07	5.47
Single bowl including pups		
40 cubic yards and over and		
tandem bowls	20.22	5.47
Trackhoe	20.07	5.47

-----  
IRON0024F 08/01/2002

	Rates	Fringes
IRONWORKERS:		
Structural	22.00	7.61

-----  
LABO0086A 05/01/2002

	Rates	Fringes
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## LABORERS:

Pipelayer	15.69	3.95
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PLUM0003E 07/01/2002

	Rates	Fringes
ADAMS, ARAPAHOE, BOULDER, DENVER, DOUGLAS (Northern half), JEFFERSON, LARIMER AND WELD COUNTIES		
PLUMBERS	26.52	6.64

-----  
PLUM0020B 07/01/2002

	Rates	Fringes
PUEBLO COUNTY		
PLUMBERS & PIPEFITTERS:		

Free Zone - 0 to 40 miles	19.85	6.81
Zone 1 - 40 miles and over: \$19.85 per hour + \$32.00 per day per diem will be paid on projects over 40 miles (Zone 1) measured in practical driving miles by the shortest route, beginning at 5th and Main Streets in Pueblo, Colorado, when the employee stays overnight or drives their own vehicle. Hazardous pay: Add \$2.20 per hour to base rate. Hazardous pay applies to projects at chemical plants, steel mills, cement plants, power generator plants, process piping at manufacturing plants, food processing plants, and all projects which may present a health hazard or serious personal injury.		

-----  
PLUM0058B 07/01/2002

	Rates	Fringes
EL PASO AND DOUGLAS (Southern half) COUNTIES		
PLUMBERS & PIPEFITTERS	24.95	7.40

-----  
\* PLUM0145B 05/01/2002

	Rates	Fringes
MESA COUNTY		
PLUMBERS & PIPEFITTERS	21.28	6.45

-----  
PLUM0208J 07/01/2002

	Rates	Fringes
ADAMS, ARAPAHOE, BOULDER, DENVER, DOUGLAS (Northern half), LARIMER AND WELD COUNTIES		
PIPEFITTERS	26.62	6.54

-----  
\* SHEE0009B 07/01/2002

	Rates	Fringes
SHEET METAL WORKERS	24.94	9.65

-----  
SUCO1033A 12/20/2001

	Rates	Fringes
BOILERMAKERS	17.60	
CEMENT MASONS/CONCRETE FINISHERS	17.31	2.85
CARPENTERS:		
Form Building and Setting	16.97	2.74
All Other Work	15.14	3.37
IRONWORKERS, Reinforcing	18.83	3.90
LABORERS:		
Common	11.22	2.92
Landscape	12.56	3.21
Flagger	8.91	3.80
PAINTERS:		
Brush, Roller & Spray	15.81	3.26
POWER EQUIPMENT OPERATORS:		

Backhoe	16.36	2.48
Front End Loader	17.24	3.23
Skid Loader	15.37	4.41

-----  
TEAM0435A 05/01/2000

	Rates	Fringes
TRUCK DRIVERS:		
Pickup	14.21	5.27
Tandem/Semi and Water	14.93	5.27

-----

WELDERS - Receive rate prescribed for craft performing operation to which welding is incidental.

=====

Unlisted classifications needed for work not included within the scope of the classifications listed may be added after award only as provided in the labor standards contract clauses (29 CFR 5.5(a)(1)(ii)).

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In the listing above, the "SU" designation means that rates listed under that identifier do not reflect collectively bargained wage and fringe benefit rates. Other designations indicate unions whose rates have been determined to be prevailing.

#### WAGE DETERMINATION APPEALS PROCESS

1.) Has there been an initial decision in the matter? This can be:

- \* an existing published wage determination
- \* a survey underlying a wage determination
- \* a Wage and Hour Division letter setting forth a position on a wage determination matter
- \* a conformance (additional classification and rate) ruling

On survey related matters, initial contact, including requests for summaries of surveys, should be with the Wage and Hour Regional Office for the area in which the survey was conducted because those Regional Offices have responsibility for the Davis-Bacon survey program. If the response from this initial contact is not satisfactory, then the process described in 2.) and 3.) should be followed.

With regard to any other matter not yet ripe for the formal process described here, initial contact should be with the Branch of Construction Wage Determinations. Write to:

Branch of Construction Wage Determinations  
Wage and Hour Division  
U. S. Department of Labor  
200 Constitution Avenue, N. W.  
Washington, D. C. 20210

2.) If the answer to the question in 1.) is yes, then an interested party (those affected by the action) can request review and reconsideration from the Wage and Hour Administrator (See 29 CFR Part 1.8 and 29 CFR Part 7). Write to:

Wage and Hour Administrator  
U.S. Department of Labor  
200 Constitution Avenue, N. W.  
Washington, D. C. 20210

The request should be accompanied by a full statement of the interested party's position and by any information (wage payment data, project description, area practice material, etc.) that the requestor considers relevant to the issue.

3.) If the decision of the Administrator is not favorable, an

interested party may appeal directly to the Administrative Review Board (formerly the Wage Appeals Board). Write to:

Administrative Review Board  
U. S. Department of Labor  
200 Constitution Avenue, N. W.  
Washington, D. C. 20210

4.) All decisions by the Administrative Review Board are final.

END OF GENERAL DECISION

## **Appendix E**

### **Project Forms**

## RAPID RESPONSE DAILY WORK ORDER

Primary Contractor's Name:

Contract Number:

Site Name & Location:

Report #:

Delivery Order #:

Date:

Subcontractor(s):

Government agencies on-scene:

### INSTRUCTIONS

The contractor shall attach this form to the rapid response quality control daily report and it shall be submitted daily at the close of business to the on-site COE representative. Concurrently, the contractor shall provide electronic access to the completed forms to the COE district office and the area office.

1. Description of work to be performed by contractor(s), with an estimate of the percentage to be completed:

2. Number of personnel authorized to perform work on site and off site:

Supervisors \_\_\_\_\_  
Engineers \_\_\_\_\_  
Geologists \_\_\_\_\_  
Chemists \_\_\_\_\_  
EMT \_\_\_\_\_

Foremen \_\_\_\_\_  
Technicians \_\_\_\_\_  
Operators \_\_\_\_\_  
Laborers \_\_\_\_\_  
Safety \_\_\_\_\_

Others (specify):

## RAPID RESPONSE DAILY WORK ORDER - CONT'D.

3. Equipment and expendable materials authorized:

Item	Quantity	Duration	Item	Quantity	Duration

4. Tests and/or inspections to be performed (indicate type and location):

5. Additional comments/remarks:

6. Certification: I CERTIFY THAT THE ABOVE WORK IS ORDERED AND AUTHORIZED BY THE ON-SITE COE REPRESENTATIVE IN THE PERFORMANCE OF THE ABOVE-CITED CONTRACT.

\_\_\_\_\_  
On-site COE representative

**RAPID RESPONSE DAILY WORK ORDER - CONT'D.**

7. I ACKNOWLEDGE RECEIPT OF THIS WORK ORDER AND UNDERSTAND THAT ANY MODIFICATION TO THE WORK ORDER MUST BE IN WRITING AND APPROVED BY THE PROJECT MANAGER.

\_\_\_\_\_  
Contractor's representative

8. Work order amendments and modifications (include time, description, and authorizing person):

\_\_\_\_\_  
On-site COE representative

\_\_\_\_\_  
Contractor's representative

## RAPID RESPONSE QUALITY CONTROL DAILY REPORT

Contractor's Name:

Contract Number:

Site Name & Location:

### INSTRUCTIONS

The contractor shall submit this form daily at the close of business to the on-site COE representative. Concurrently, the contractor shall provide electronic access to the completed forms to the COE district office and the area office.

Report #:

Delivery Order #:

Date:

Weather:

Temp. (max & min):

Rainfall (in):

1. Work performed today by primary contractor on site and/or off site (include a complete description):



**RAPID RESPONSE QUALITY CONTROL DAILY REPORT - CONT'D.**

2. Work performed by subcontractors on site and/or off site (include a complete description):

3. Complete and attach the daily personnel cost report at the end of this document and label as Appendix 1.

The daily personnel cost report is required for all cost reimbursable work on site and off site including subcontractors. At a minimum, the cost report shall provide: report title, site name, contractor, contract number, delivery order number, date, employee name and classification, hourly labor rates (regular, overtime or other), total hours (regular, overtime or other) and per diem. Labor costs shall be summed for: each employee, the entire daily report, the entire delivery order (up to the date of the report), and the percentage of the estimated cost of labor.

4. On-site conditions which resulted in delayed progress:

**RAPID RESPONSE QUALITY CONTROL DAILY REPORT - CONT'D.**

5. Type and results on inspections (indicate whether: P-Preparatory, I-Initial, or F-Final and include satisfactory work completed or deficiencies with action to be taken):

6. List type and location of tests performed and results:

7. List verbal instructions received from government personnel on any deficiencies or retesting required:

# RAPID RESPONSE QUALITY CONTROL DAILY REPORT - CONT'D.

8. Complete and attach the daily equipment cost report at the end of this document and label as Appendix 2.

The daily equipment cost report is required for all cost reimbursable work on site and off site including subcontractors. At a minimum, the cost report shall provide: report title, site name, contractor, contract number, delivery order number, date, equipment type and identification number, hours in service, hours standby, hours idle time, cost rate, and days in service. Equipment costs shall be summed for: each type, the entire daily effort, the entire delivery order (up to the date of the report), and the percentage of the estimated cost of equipment.

9. List the total number of samples collected and tested for the day:

Collected:

Tested:

Amplifying info:

10. List the total quantity of wastewater treated (gal):

11. List the total number of drums overpacked:

Quantity	Location	Haz-Cat

12. List the total amount of waste(s) removed from the site:

Liquid (bbl/gal):

Solids (yds/tons):

Amplifying info:

**RAPID RESPONSE QUALITY CONTROL DAILY REPORT - CONT'D.**

13. List the following transportation and/or disposal information:

Quantity	I.D. #	Material	Manifest #	Disposal Location

14. Complete and attach the daily material cost report at the end of this document and label as Appendix 3.

The daily material cost report is required for all cost reimbursable work on site and off site including subcontractors. At a minimum, the cost report shall provide: report title, site name, contractor, contract number, delivery order number, date, material purchased, quantity and units, location of material, and vendor. Material costs shall be summed for: each purchase, the entire daily effort, the entire delivery order (up to the date of the report), and the percentage of the estimated cost of materials.

15. List all safety violations observed and corrective actions taken:

16. List any credits and/or adjustments due to the government (reference invoice number, conversations, etc.):

**RAPID RESPONSE QUALITY CONTROL DAILY REPORT - CONT'D.**

17. Complete and attach the rapid response daily work order at the end of this document and label as Appendix 4.

The daily work order is required for all cost reimbursable work on site and/or off site including subcontractors. This document details the contractor's next day work effort which shall have advance approval by the on-site COE representative before the contractor is entitled to cost reimbursement.

18. Additional comments/remarks:

19. Certification: I CERTIFY THAT THE ABOVE REPORT IS COMPLETE AND CORRECT AND THAT I, OR MY AUTHORIZED REPRESENTATIVE, HAVE INSPECTED ALL WORK PERFORMED THIS DAY BY THE PRIMARY CONTRACTOR AND EACH SUBCONTRACTOR AND HAVE DETERMINED THAT ALL MATERIALS, EQUIPMENT, AND WORKMANSHIP ARE IN STRICT COMPLIANCE WITH THE PLANS AND SPECIFICATIONS, EXCEPT AS NOTED ABOVE.

\_\_\_\_\_  
Contractor's designated quality control representative